

## 1996 ANNUAL EXHIBITION

### Imperial College, London SW7—2 November 1996

The following account of exhibits has been compiled by A.M. Jones (British butterflies), S. P. Clancy (British Macrolepidoptera), D. J. L. Agassiz (British Microlepidoptera), B. Goater (Foreign Lepidoptera), P. J. Chandler (Diptera), P. J. Hodge (Coleoptera), P. Kirby (Hemiptera), A. J. Halstead (Hymenoptera and other orders), R. Dyke (illustrations). The photographs for the two colour plates were taken by D.E. Wilson and the cost of printing these plates was met by a grant from the Hammond Memorial Fund.

#### BRITISH BUTTERFLIES

BAILEY, K. E. J.—Further results of breeding *Eurodryas aurinia* Rott. ab. *atratus* Bailey (Plate I, Fig. 11), an aberration previously shown at the 1994 annual exhibition. These were extracted recessives from the F<sub>2</sub> generation; the number of *atratus* were down on the expected recessive ratio and specimens proved difficult to pair, indicating a possible genetic weakness. Among the specimens was a female heterozygous to *atratus* with patches of *atratus* colour on the left hindwing underside. The stock is being maintained and now includes hybrid pairings with the Spanish subspecies *beckeri* H.-S.

Among specimens produced by temperature shock to the pupae were two *Nymphalis polychloros* L. with prominent blue marginal lunules on the forewings, but a suppression of the blue on the hindwings—a reverse of the usual condition, both from heat shock. Other notable specimens included a highly melanic *Aglais urticae* L. approaching ab. *osborni* Donckier de Donceel, from heat shock; *Ladoga camilla* L. ab. *nigrina* Weymer with paler ground colour than usual and an extreme underside ab. *nigrizina* Frohawk of *Argynnis paphia* L., from cold shock. Also examples of *Inachis io* L. ab. *fischeri* Standfuss produced by holding 8–12 hour-pupae at 4°C for 21 days.

Several notable wild-caught aberrations included two male *Boloria selene* L. taken within 5 minutes of each other, the first with extreme melanic forewings (Plate I, Fig. 9), the second ab. *vanescens* Cab., Devon, vi.1996. A female *Argynnis paphia* L. ab. *confluens* Spuler and *Pararge aegeria* L. approaching ab. *intermediana* Lempke, both Devon, viii.1996. *Aglais urticae* L. ab. *semiichnusoides* Pronin resembling the Corsican *Aglais urticae ichnusa* Hübner with no black shading between the two outer black costal spots on the forewings and hindwing postdiscal position S7, Devon, viii.1995.

BARRINGTON, R. D. G.—An extreme, possibly unique aberration of *Cynthia cardui* L. (Plate I, Fig. 1) with forewing black markings greatly extended and joining

#### PLATE I ANNUAL EXHIBITION 1996

1	2	
3	4	5
6	7	8
9	10	11
12		
	14	15
13		

- 1: *Cynthia cardui*, Dorset, viii 1996, R. D. G. Barrington. 2: *Cynthia cardui* ab. *rogeri*, temperature shock, vi.1996, P. Tebbutt. 3: *Plebicula escheri*, Meysomme, Dordogne, France, 3 vi 1990, M. Crow. 4: *Polyommatus icarus*, ab. *striata* + *obsoleta*, bred, vii.1996, R. Revels. 5: *Celastrina argiolus*, ab. *radiata*, Eel Pie Island, Middx, 7.viii.1996, A. M. Jones. 6: *Lysandra bellargus*, gynandromorph, vii.1996, A. M. Jones. 7: *Aphantopus hyperantus*, halved gynandromorph, bred Wilts., 6 vii 1996, M. Callow. 8: *Aphantopus hyperantus*, ab. *pallens*, York, 14 vii.1996, M. Parker. 9: *Clossiana selene*, male Devon, vi.1996, K. E. J. Bailey. 10: *Plebejus argus*, mixed gynandromorph, R. Barrington. 11: *Eurodryas aurinea* ab. *atratus*, Bred K. E. J. Bailey. 12: *Pipizella maculipennis*, Warmwell Heath, Dorset, 16 vii.1996, A. Wass. 13: *Leptarthus vitripennis*, Riddlesdown, Surrey, 1 vii 1996, R. D. Hawkins. 14: *Lysandra bellargus*, gynandromorph, Dorset, 15 vi 1996, A. S. Harmer. 15: *Cynthia cardui*, ab. *rogeri*, Dorset, 27 vii 1996 B. Fensome.

the white costal blotch streaked inwards and about three times the normal size, upperside hindwings a little more heavily marked than the type, underside hindwings with typical marginal areas and the centres largely obsolete, captured Dorset, viii.1996.

Several *Maniola jurtina* L. a male with homoeosis having hindwing underside markings reproduced on the left forewing, a male ab. *parvipuncta* Leeds, a female with a dark underside and an ab. *crassipuncta* Leeds; or, also a pair of ab. *postmultifidus* Lipscombe. *Coenonympha tullia* Müller subspecies *polydama* Haworth, a heavily marked ab. *addenda* Lempke from S. Yorks. *Lysandra coridon* Poda, fresh examples of ab. *postcaeca* B. & L., ab. *anticaeca* B. & L., and full ab. *caeca* Courv. A very fine mixed gynandromorph of *Plebejus argus* L. (Plate I, Fig. 10), left side male, right side female with a streak of male across the hindwing, caught vii.1996.

A bred F<sub>1</sub> example of *Pyronia tithonus* L. ab. *excessa* Leeds from a similar parent. *Lycaena phlaeas* L., a pair of ab. *discojuncta* Tutt. bred with 9 other examples from a brood of 70 adults from a type female.

CALLOW, M.—A possibly unique *Aphantopus hyperantus* L. bilateral gynandromorph (Plate I, Fig. 7), the underside with a type male left side and ab. *arete* Müller female right side. This emerged in a brood consisting of 16 *arete* and 26 type, the F<sub>3</sub> generation from an *arete* female. The stock is being maintained for further study.

CHAMBERS, D. A.—*Aglais urticae* L. approaching ab. *semiichnusoides* Pronin, photographed at Queensdown Warren, Kent, on 25.viii.1996 as it sat at the top of an impenetrable bramble thicket. The aberration mainly affected the forewings with only half the hindwings showing dark suffusion.

CHURCH, S. H.—A selection of Scottish butterflies including a very small male *Polyommatus icarus* Rott. with a greyish ground colour, possibly caused by a scale defect.

FENSOME, B.—An extreme *Cynthia cardui* L. ab. *rogeri* Meilhan (Plate I, Fig. 15) captured at Burton Brackstock, Dorset, 27.vii.1996. *Aricia agestis* D. & S., two ab. *glomerata* Tutt, from Northants. A good female *Polyommatus icarus* Rott. ab. *radiata* Courv. captured in Hunts., and a bred pair. A pale *Thymelicus sylvestris* Poda from Paxton, Hunts., and a male *Pyronia tithonus* ab. *lugens* Ober. from Bedfordshire.

HARLEY, B. H.—Butterflies from the Inner Hebrides including *Coenonympha tullia* Müller subsp. *scotica* Staudinger and *Maniola jurtina* L. subsp. *splendida* Buchanan White.

HARMER, A. S.—An example of the very rare *Thymelicus acteon* Rott. ab. *alba* Bolton, taken Dorset, 5.viii.1996. A gynandromorph of *Lysandra bellargus* Rott. (Plate I, Fig. 14) from Corfe, Dorset, 15.vi.1996, mainly male but with the left hindwing female and half the normal size.

JONES, A. M.—A pair of bred *Pararge aegeria* L. showing homoeosis on the underside, a female from the F<sub>2</sub> generation with large pale areas on the left hindwing and a dark streak on the forewing, 22.xii.1995, a male from the F<sub>3</sub> generation with pale streaks on the right forewing, iv.1996. Two male *Maniola jurtina* L., an ab. *antiparvipuncta* Leeds and an ab. *anommata* Verity, both taken from the same locality on 28.vii.1996 and possibly genetically related. *Celastrina argiolus* L., a male approaching ab. *subtus-radiata* Ober. (Plate I, Fig. 5), captured at Eel Pie Island, Middx., on 7.viii.1996 during a lunch break and without the aid of a net. A gynandromorph of *Lysandra bellargus* Rott. (Plate I, Fig. 6) appearing halved with the upperside left wings male and the right wings female but with a streak of male colouration on the underside of the female forewing and a male-looking abdomen, captured viii.1996.

KEMP, R. J.—A strong *Aglais urticae* L. ab. *semiichnusoides* Pronin, captured at Ford Village, near Aylesbury, Bucks., on 22.viii.1996.

MIDDLETON, H. G. M.—A *Cynthia cardui* L. ab. *ocellata* Rebel, captured at Brockenhurst, Hants., as it fed from buddleia, 25.viii.1996.

McCORMICK, R.—A dwarfed example of *Cynthia cardui* L., captured 7.vi.1996.

PARKER, M.—*Aphantopus hyperantus* L. ab. *pallens* Schultz (Plate I, Fig. 8), a male of this very rare aberration taken near York, Yorkshire, 14.vii.1996.

PAYNE, J. H.—The results of pupal shock experiments on nymphalid butterflies included *Polygonia c-album* L. ab. *obscura* Closs. and ab. *extincta* Rebel lacking the 'comma', and *Inachis io* L. ab. *belisaria* Ober. A wild-caught *Aphantopus hyperantus* L. and ab. *arete* Müller from Wiltshire.

PICKLES, A. J. & C. T.—An *Argynnis aglaja* L. ab. *suffusa* Tutt female bred from a larva taken on the Burren, Co. Clare, and *Erynnis tages* L. subsp. *baynesi* Huggins approaching ab. *alcoides* Tutt, also from Co. Clare.

PORTER, J.—A selection of *Anthocharis cardamines* L. subsp. *hibernica* Williams, including ab. *crassipuncta* Mezger, bred from eggs found at the Burren, Co. Clare, vi.1995. *Lysandra bellargus* Rott., ab. *marginata* Tutt and ab. *semiceronus* Tutt, both from Wilts., 13.vi.1996. *Polygonia c-album* L. ab. *i-album* Tutt, one of two reared from a female, Surrey, 11.ix.1996.

REVELS, R. C.—A short series of *Aricia agestis* D. & S. ab. *glomerata* Tutt taken in Northants during 1996. The population studied showed a high frequency of *glomerata* with approximately 1 in 30 specimens affected. *Celastrina argiolus* L., a dark-suffused female from the summer brood. A dark *Coenonympha pamphilus* from a Bedfordshire 'set aside' field, ix.1996.

Selected specimens of *Polyommatus icarus* Rott. from the F<sub>4</sub> generation of a female ab. *discoelongata* B. & L. taken viii.1994. These included a good ab. *radiata* Courv., an ab. *obsoleta* Gillmer., and an example of the rare ab. *striata* Tutt. with partially obsolete hindwings (Plate I, Fig. 4). The F<sub>5</sub> generation from *radiata* parents only produced a few worthwhile aberrations and about half the eggs were infertile.

Further breeding of *Pyronia tithonus* L. ab. *lugens* Ober., consisting of two very dark suffused pairs. The 1996 brood was very weak and only 10 specimens were reared of which 5 were *lugens*. A pairing between a *lugens* female and a wild type male occurred but no eggs were laid.

SALMON, M.A.—A selection of historical specimens including a male *Papilio machaon* L. subsp. *britannicus* Seitz taken by G. Brooks at Wicken Fen, Cambs., 5.viii.1911. The normal deep yellow to all areas except the discoidal cells is reduced to pale yellow-white caused by a scale defect. An *Argynnis lathonia* L. captured by Captain Chawner at Caistor, Norwich, in 1834. A male example of the rare ab. *aureus* Frohawk of *Gonepteryx rhamni* L., from Assington, Suff., in 1897. This has an orange patch on each forewing and was exhibited with a male *G. cleopatra* L. for comparison. Three examples of *Erebia ligea* L. from the Isle of Mull, Scotland, all captured between 1860 and 1862 and from the G. H. Simpson-Hayward collection. These were the subject of a recent article (see Salmon, M. A., 1995, *Ent. Rec. J. Var.* 107: 117–126).

SHARPE, P.—A female *Colias croceus* Geoffroy with a pale yellow ground colour, Lizard, Corn., 14.x.1996.

STOKES, D.—Three bred *Cynthia cardui* L., including an ab. *rogeri* Meilhan caused by heat shock experiments. Two strong female and a male *Argynnis paphia* L. ab. *confluens* Spuler from cold shock experiments.

TEBBUTT, P.—The results of heat shock experiments on freshly formed pupae including a series of *Polygonia c-album* L. ab. *obscura* Closs with almost black

hindwings and a single ab. *suffusa* Frohawk. *Aglais urticae* L., named melanics including ab. *nigra* Tutt, ab. *semiichnusoides* Pronin and ab. *nigricaria* Lambillion. *Nymphalis polychloros* L., an almost entirely black ab. *extrema* Gonner, and an ab. *testudo* Esper.; *Vanessa atalanta* L., an unnamed aberration with the forewing white costal blotch absent. Very interesting, in the light of the huge 1996 immigration, was a series of *Cynthia cardui* L. showing a range of named upperside aberrations and their corresponding undersides; these included ab. *emielymi* Verity, ab. *priameis* Schulz, ab. *inornata* Bramson, ab. *browni* Meilhan, ab. *elymi* Rambur and an ab. *rogeri* Meilhan (Plate I, Fig. 2).

Wild-caught specimens included a *Maniola jurtina* L. ab. *grisea-anrea* Ober., a series of Scottish *Aphantopus hyperantus* L. showing spotting variation and a greyer ground colour when compared to English ab. *arete* Müller., *Aricia agestis* Denis & Schiff. ab. *glomerata* Tutt, ab. *discreta* Tutt, and ab. *parvipuncta* Tutt. A male *Boloria dia* L. captured in Wiltshire was one of two seen, and may have been the result of a deliberate release, as the species is not a noted migrant.

#### BRITISH MACROLEPIDOPTERA

AGASSIZ, D. J. L. —From Gravesend, Kent, the fourth British record of *Dysgonia algira* (L.), 31.vii.96 (see also D.C. Brown exhibit). Also from the same locality, *Simyra albovivena* (Goeze) and an aberrant *Agrotis exclamatoris* (L.).

BAKER, B. R. —From N. Devon on 26.vii.96, *Perizoma taeniata* (Steph.), *Hydrelia sylvata* (D. & S.), and a series of *Alcis jubata* (Thunb.) exhibiting a tendency for distinct forewing barring. Also a bred series of *Orthonama obstipata* (F.) from Exmoor, Somerset.

BAKER, P. J. —A striking aberration of *Gymnoscelis rufifasciata* (Haw.), taken at West Hill, E. Devon, on 20.x.96 (Plate II, Fig. 8).

BLAND, K. P. —Two examples of *Lithophane leantieri hesperica* (Bours.) taken with others at Tarvin, Ches., between 20.x.96 & 28.x.96.

BROTHERIDGE, D. J. —The following migrant species from Wroughton, near Swindon, Wilts., during 1996: *Orthonama obstipata* (F.), *Spodoptera exigua* (Hübner), *Heliothis armigera* (Hübner), *Heliothis peltigera* (D. & S.), and *Trichoplusia ni* (Hübner). Also exhibited from the same locality, varieties of *Scopula biselata* (Hufn.), *Camptogramma bilineata* (L.), *Phragmatobia fuliginosa* (L.), *Agrotis exclamatoris* (L.), and *Autographa gamma* (L.).

BROWN, D. C. G. —Several scarce migrant species including *Hyles gallii* (Rott.), Walberswick, Suff., 23.vii.96; *Hyles livornica* (Esp.), Lizard, Corn., 19.viii.96; *Hippotion celerio* (L.), Studland, Dorset, 26.x.95; *Ochropleura leucogaster* (Freyer), Lizard, Corn., 31.x.95 (fifth British record); *Dysgonia algira* (L.), Portland, Dorset, 14.viii.96 (fifth British record); and *Trichoplusia ni* (Hübner), four examples from Pagham, W. Sussex, and Lizard, Corn., taken viii.1996.

An example of *Lomaspilis marginata* (L.) with restricted dark scaling (Plate II, Fig. 18), and *Crocallis elingnaria* (L.) showing a narrow, tapering central band.

BROWN, K. —Exhibited on behalf of the Somerset Moth Group, a number of species taken in that county by various recorders. These included *Mythimna l-album* (L.), *Mythimna obsoleta* (Hübner), *Psilodonta cucullina* (D. & S.), *Arenostola phragmitidis* (Hübner), *Chilodes maritimus* (Tausch.) ab. *bipunctata* (Haw.), *Heliothis armigera* (Hübner), and *Heliothis peltigera* (D. & S.).

Also exhibited from Somerset were a bred series of *Trichoplusia ni* (Hübner) and several *Lasiocampa quercus quercus* (L.) exhibiting some of the characteristics of *L. quercus callunae* (Palm.) while having a one-year life cycle.



CHURCH, S. H.—A selection of macrolepidoptera varieties from Scotland.

CLANCY, S. P.—Dispersive species recorded from the Dungeness area of Kent during 1996. Most noteworthy of these were as follows: *Chloantha hyperici* (D. & S.), 20.viii.96 (first British record—Plate II, Fig. 1); *Actinotia polyodon* (Cl.), 18.viii.96; *Cryphia algae* (F.), four specimens; *Cryphia raptricula* (D. & S.), 9.viii.96; and *Catocala sponsa* (L.), 19.viii.96.

Also exhibited, from Rye Harbour, E. Sussex, were *Enargia paleacea* (Esp.), 19.viii.96; *Acrionicta strigosa* (D. & S.), 22.vii.96 (first British record since the species died out as a resident in 1933); and *Macdunnoughia confusa* (Steph.), 19.viii.96.

Four of the five British specimens of *Pechipogo plumigeralis* (Hübner) were also shown: a female taken at Greatstone, Kent, on 12.x.95 (the first record), and three males taken in 1996, at New Romney, Kent, on 8.viii.96, and Rye Harbour, E. Sussex, on 22.vii.96 and 11.viii.96.

CLARKE, J.—A selection of Lepidoptera bred or taken during 1996. Resident species included bred series of *Noctua orbona* (Hufn.) from the Breck, Suff., *Anarta cordigera* (Thunb.) from Newtonmore, Inv., and *Orthosia opima* (Hübner) from Essex. Immigrants included *Spodoptera exigua* (Hübner) from Surrey & Cornwall.

In addition, a selection of moths from the Burren, Co. Clare, were shown including *Odontognophos dumetata hibernica* (Forder), *Philereme vetulata* (D. & S.), and *Philereme transversata* (Hufn.), all bred from larvae on *Rhamnus catharticus*; *Semiothisa clathrata hugginsi* (Baynes), shown with *S. clathrata clathrata* (L.) for comparison; and *Zygaena purpuralis sabulosa* (Trem.) from four different localities.

COLENUTT, S.—A specimen of *Eurois occulta* (L.) taken at Whitwell, Isle of Wight, 20.viii.96.

COLLINS, G. A.—An exhibit centred around *The Larger Moths of Surrey*, a book due for publication in 1997 and the result of extensive fieldwork over the last ten years. Distribution maps, specimens and species accounts were displayed for several species whose known status in the county has changed during this period. These included *Sesia apiformis* (Cl.), found to be widespread in the northern part of the county due to increased fieldwork; *Chloroclysta siterata* (Hufn.), showing a recent extension of its range throughout Surrey; *Eupithecia millefoliata* Rössl., now known to breed in the county; *Eupithecia egenaria* H.-S., new to Surrey; and *Stilbia anomala* (Haw.), a resident species, overlooked until recently.

COOK, R. R.—A number of interesting resident species recorded from Britain and Ireland. These included *Agrochola haematidea* (Dup.) from a new locality in the New Forest, Hants.; *Bembecia muscaeformis* (Esp.) from Wembury, Devon; *Eupithecia ultimaria* (Boisd.) from S. E. Hants.; *Hydrelia sylvata* (D. & S.) and *Photedes fluxa* (Hübner) from Powerstock Common, Dorset; and, from the Burren, Co. Clare, *Zygaena purpuralis sabulosa* (Trem.), *Odontognophos dumetata hibernica* (Forder), and *Photedes captiuncula tineta* (Kane).

CRAMP, P. J.—From the Isle of Wight: examples of *Mesoleuca albicillata* (L.) and *Atolmis rubricollis* (L.) from Parkhurst, and *Trichoptusia ni* (Hübner) from Godshill on 19.viii.96.

DOBSON, A. H.—From the BENHS Field Meeting at Sandwich Bay, Kent, on 13.vii.96, a number of the specialities from this site including *Eilema pygmaeola pygmaeola* (Doubl.) and *Idaea ochrata cantata* (Prout); and an interesting aberration of *Philudoria potatoria* (L.), (Plate II, Fig. 6).

ELLIOTT, B.—Species noted on a visit to Mainland Shetland during July 1996. These included examples of *Hepialus humuli thulensis* (Newm.), *Hepialus fusconebulosa f. shetlandicus* (Viette), *Hadena confusa* (Hufn.) ab. *obliterae* (Robs.), and

*Apamea zeta marmorata* (Zett.). Most notably, *Thera cognata* (Thunb.) was recorded locally as a larvae, a species new to Shetland (Plate II, Fig. 11).

EMMET, A. M.—Migrant species taken at Saffron Walden, Essex: *Eurois occulta* (L.), 1.ix.96 & 3.ix.96; *Spodoptera exigua* (Hübner.), 17.viii.96; *Heliothis peltigera* (D. & S.), 16.vi.96, 17.vi.96, & 14.viii.96, (a fourth was recorded on 20.viii.96 but not retained); *Trichoplusia ni* (Hübner.), 17.viii.96. In addition an example of *Cucullia absinthii* (L.) was exhibited. This was also taken in Saffron Walden on 21.viii.96, and represents the first record of this species from north-west Essex.

EZARD, A. S.—Some selected species taken in Yorkshire during 1996. These included *Hyloicus pinastri* (L.), Allerthorpe, 14.viii.96; *Meganola albula* (D. & S.), Bridlington, 9.viii.96, and Rudston, 12.viii.96; *Heliothis armigera* (Hübner.), Rudston, 7.ix.96; *Heliothis peltigera* (D. & S.), Rudston, 4.ix.96; and *Hydraecia petasitis* Doubl., Rudston, 3.ix.96.

HALL, N. M.—From Reading, Berks., examples of *Spodoptera exigua* (Hübner.) and *Heliothis peltigera* (D. & S.), a melanic form of *Agrotis clavus* (Hufn.), and an aberration of *Charanycha trigrammica* (Hufn.).

Also a bred series of *Euplagia quadripunctaria* (Poda) from Portland, Dorset, and *Apamea oblonga* (Haw.) from Hastings Country Park, E. Sussex, 19.viii.96.

HARLEY, B. H.—An extensive exhibit of Lepidoptera from Islay, Inner Hebrides, with a few specimens from Jura and Colonsay. Most notable among these were examples of *Pluhalapteryx virgata* (Hufn.), *Serraea punctinalis* (Scop.), and *Tyria jacobaeae* (L.), all from Islay.

HARMAN, T. W.—A selection of species taken at Beltinge, Herne Bay, Kent, by B. Matlock and exhibited on his behalf. These included two *Hyles livornica* (Esp.), three *Eurois occulta* (L.), and examples of *Euxoa cursoria* (Hufn.), *Rhyacia simulans* (Hufn.), *Conistra erythrocephala* (D. & S.), *Xanthia gilvago* (D. & S.), *Enargia paleacea* (Esp.), *Deltote bankiana* (Fab.), and *Trichoplusia ni* (Hübner.).

Also shown was a series of *Eurois occulta* (L.) bred from a female taken at Sandwich Bay, Kent on 26.viii.95.

HART, C.—Small larvae of *Orthonama obstipata* (Fab.), bred from a female taken at Buckland, Surrey, 12.x.96.

HENWOOD, B.—A selection of moths taken in Devon during 1996. Most noteworthy among these was a migrant example of *Scopula rubiginata* (Hufn.) from Beer on 18.viii.96. Also included were *Orthonama obstipata* (Fab.), Abbotskerswell, 7.vi.96; *Discoloxia blomeri* (Curt.), Berry Pomeroy, 2.viii.96; *Cosmia affinis* (L.), Abbotskerswell, 5.viii.96; *Spodoptera exigua* (Hübner.), Abbotskerswell, 19.vi.96; *Heliothis armigera* (Hübner.), Abbotskerswell, 2.viii.96; and *Trichoplusia ni* (Hübner.), Abbotskerswell, 5.viii.96.

HONEY, M. R.—Exhibited on behalf of The Natural History Museum, London, some specimens from the National Collection:

Examples of the regular British migrant *Hyles livornica* (Esp.) and the closely related American species *Hyles lineata* (Fab.), now considered to be separate species. These were exhibited with an example of *H. lineata* reputedly from Bridlington, Yorks. in July 1897.

An apparently unique melanic aberration of *Noctua janthe* (Borkh.) with completely black hindwings (Plate II, Fig. 3). This was taken in Cambridge by R. Revell on 20.vii.96, and subsequently donated to the National Collection.

Short foreign series of two species recently added to the British list—*Agrotis herzogi* (Rebel) and *Chloantha hyperici* (D. & S.). (See A. Spalding and S.P. Clancy exhibits).

A drawer showing species recorded in the Wildlife Garden of the Natural History Museum, London. Of interest were examples of *Macroglossum stellatarum* (L.), 4.vi.96; *Ipimorpha subtusa* (D. & S.), 10.vii.96 & 7.viii.96; and *Chloroclysta siterata* (Hufn.), 25.iv.96.

HUMPHREY, D. A.—An example of *Acontia lucida* (Hufn.) taken at M.V. light by A. G. Page at a site 3 km northeast of Ringwood, Hants. on 19.viii.96. This represents the first Hampshire record of this species and only the fifth British record this century, all in the last three years.

JENKINS, A.—A number of local species recorded in Britain during 1996. These included *Malacosoma castrensis* (L.) and *Hypena obsitalis* (Hübner) from S. Devon; *Cossus cossus* (L.) from Cambridgeshire; and *Mythimna turca* (L.) from Somerset.

KENDRICK, R. C.—An exhibit centred around a visit to Kynance Cove, Lizard, Corn., on 18 & 19.viii.96, and including specimens of *Hyles livornica* (Esp.), *Rhometra sacraria* (L.), *Mythimna unipuncta* (Haw.), and *Trichoplusia ni* (Hübner), from that site.

KNILL-JONES, S. A.—An extensive exhibit of migrant and resident species taken on the Isle of Wight. All species listed are from Freshwater during 1996: *Dendrolimus pini* (L.), 12.viii.96 (first British record this century and new to Hampshire, Plate II, Fig. 4); *Agrotis crassa* (Hübner), 12.viii.96 (new to I.O.W.); *Trigonophora flammea* (Esp.), 14.x.96; *Trachea atriplicis* (L.), 9.viii.96 (new to I.O.W.); *Heliothis virescens* (Hufn.), 13 & 14.viii.96; *Catocala fraxini* (L.), 9.x.96; and *Eilema caniola* (Hübner), 11.viii.96.

Aberrations included a virtually unmarked *Spilosoma luteum* (Hufn.) and two *Noctua pronuba* L. lacking the black apical mark.

KOLAJ, A.—Exhibit included from Coventry, War., *Macroglossum stellatarum* (L.), 31.viii.96, *Heliothis peltigera* (D. & S.), 16.vi.96, and *Trichoplusia ni* (Hübner), 22.viii.96.

Also shown were three *Hyles livornica* (Esp.), of eight or nine seen at Swanage, Dorset on 7.vi.96; and a selection of specialities from Hamstreet, Kent, which included examples of *Heterogenea asella* (D. & S.) and *Peribatodes secundaria* (Esp.).

LANGMAID, J. R.—From Hampshire: *Acronicta auricoma* (D. & S.), Warsash, 9.viii.96 (taken by P. M. Potts); *Apamea oblonga* (Haw.), Portsmouth, 26.vii.96 (a dark specimen taken by I. Thirlwell); *Heliothis armigera* (Hübner), Southsea, 31.viii.96; and *Trichoplusia ni* (Hübner), Southsea, 14.viii.96.

LOWE, C. D.—Species recorded during an A-level investigation on the Heart and Dart, *Agrotis exclamationis* L., and others in a Breconshire (Llangorse) garden. *Agrotis exclamationis* (L.), 17/18.ix.1996, *Heliothis peltigera* (D. & S.), 19/20.vi. 1996, *Oligia versicolor* Borkh., 7.vii.1996, *Oligia strigilis* (L.), 23.vii.1996, *Anaplectoides prasina* (D. & S.), 9.vii.1996, 9.viii.1996, cream-banded form, *Orthopygia glaucinalis* L., 14.viii.1996 (new county record), *Orthonama obstipata* Fab., 18.viii.1996, *Coenoteaphria salicata* (Hb.), 9.ix.1996, *Agrotis puta* (Hb.), 10.ix.1996, *Peridroma saucia* (Hb.), 22.x.1996 (third county record), *Xestia c-nigrum* (L.), 16.ix.1996, *Larentia clavaria* (Haw.), 26.ix.1996 (third county record since 1926), *Gortyna flavago* (D. & S.), 9.x.1996, *Lithophane leautieri* (Boisd.), 9.x.1996 (first county record 10.x.1991), recorded 3.x-31.x 1996 (max. 7 on 6.x.)

LOWE, N. R.—Records from Breconshire (VC42) *Eupithecia pygmaea* Hb., Cray, Brecon., 18.vi.1996, *Idaea trigeminata* Haw. Pwll y Wrach, Brecon., 7.vii.1996.

McCORMICK, R.—An extensive exhibit of interesting species found in Devon, mainly during 1996. Most notable of these were the following: *Cossus cossus* (L.), two at Branscombe, 12.vii.96; *Cyclophora porata* (L.), several at Gulliford, Kenton, 18.viii.96-3.ix.96, and at Exeter, 7.viii.96; *Eupithecia valerianata* (Hübner), near Widecombe, Dartmoor, 22.vii.96; *Discoloxia blomeri* (Curt.), Dartmoor, 25.vi.96,



and near Dunsford, 22.vii.96; *Venusia cambrica* (Curt.), near Lynmouth, 9.vii.96, and Dartmoor, 30.vii.96; *Furcula bicuspis* (Borkh.), Newton Abbot, 5.vi.96; *Spilosoma urticae* (Esp.), in good numbers at Exminster Marshes, 14.vii.96; *Antitype chi* (L.), one of at least six specimens taken by D. Fish at Churston during 1996; *Acronicta aceris* (L.), Chardstock, 9.viii.96 (taken by A. Jenkins—a very rare moth in Devon); *Celaena haworthii* (Curt.), Chardstock, 18.viii.96 (taken by A. Jenkins).

Among the migrants exhibited were two *Lymantria dispar* (L.) from Plymouth, 10.viii.94, and Dawlish, 18.viii.96; two *Hyles livornica* (Esp.) of the thirteen seen at Prawle Point on 7.vi.96, (others were seen at Teignmouth on 21.viii.96 & 19.ix.96); and *Mythimna loreyi* (Dup.), Dawlish, 5.ix.96.

Two species from outside Devon were shown: *Idaea dilutaria* (Hübner) from a locality near Bristol, Som., and *Thera cupressata* (Geyer), found as larvae at Swanage, Dorset.

MIDDLETON, H. G. H. & SCANES, J. T.—From Beeley Moor, Derbys., *Epirrita filigrammaria* (H.-S.), *Antitype chi* (L.), *Lithomoia solidaginis* (Hübner), *Celaena haworthii* (Curt.), and *Syngrapha interrogationis* (L.).

From the Burren, Co. Clare, *Thera cognata* (Thunb.), *Hemaris tityus* (L.), *Hadena perplexa capsophila* (Dup.), and *Acronicta euphorbiae myricae* (Guen.).

Also examples of *Sideridis albicolon* (Hübner), Rosslare, Wex.; *Enargia paleacea* (Esp.), Sherwood Forest, Notts.; and *Acronicta alni* (L.) *ab. steinerti* (Casp.), Chiddingfold, Surrey.

Immigrant species were *Orthonama obstipata* (Fabr.), two at Tolworth, Surrey, 1.viii.96 & 14.viii.96; *Acherontia atropos* (L.), Brockenhurst, Hants., 9.viii.96; *Heliothis peltigera* (D. & S.), Lymington, Hants., 8.vi.96 (two), Tolworth, Surrey, 10.vi.96—12.vi.96 (four), and Beeley Moor, Derbys., 20.viii.96 (twelve); and *Heliothis armigera* (Hübner), Beeley Moor, Derbys., 20.viii.96 (two).

PARSONS, M. S.—Examples of *Hadena caesia* (D. & S.) reared from larvae collected on the Isle of Mull, 28.vi.95; *Cryphia algae* (Fabr.), Holywell, Eastbourne, E. Sussex, 13.viii.96; two *Trichoplusia ni* (Hübner), Holywell, Eastbourne, E. Sussex, 13.viii.96 & 21.viii.96; and *Synanthedon myopaeformis* (Borkh.) reared from a larva found at Richmond Park, Surrey, 22.vi.96.

PHILLIPS, J. W.—Five species were exhibited: *Semiothisa carbonaria* (Cl.), from Newtonmore, Inv.; *Aleucis distinctata* (H.-S.) from Bookham Common, Surrey; *Noctua comes* Hübner, from Findhorn, Moray., a bred series showing the full range of forms from that site; *Eurois occulta* (L.), a series reared from larvae found near Kingussie, Inv.; *Lithophane hepatica* (Cl.), a series bred from a female taken at Hamstreet, Kent.

PICKLES, A. J. & C. T.—From the Burren, Co. Clare, *Hadena perplexa capsophila* (Dup.) and *Hadena caesia mananii* (Gregs.), the latter species exhibited with some specimens from Skye for comparison.

Also several *Tettheella fluctuosa* (Hübner), representing *f. albilinea* (Cockayne), *ab. unicolor* (Lempke), and the type.

PITTIS, S. C.—A wide range of local, migrant, & aberrant moths, mostly bred or caught in 1996. Among these were bred series of *Thera cupressata* (Geyer) from Dorset, *Cosmia diffinis* (L.) from Cambs., and *Hypena rostralis* (L.) from Surrey. A number of Scottish specialities were shown; examples of *Agrilus convolvuli* (L.), from Kingussie, Inv., viii.96, and *Trichoplusia ni* (Hübner) from Woking, Surrey, 9.viii.96. Aberrations included *Craniophora ligustri* (D. & S.) *ab. nigra* (Tutt), from Tintern, Mon., 26.vi.95, and an extreme variety of *Electrophaea corylata* (Thunb.), from Loch Tummel, Perth., 2.vii.96 (Plate II, Fig. 7).



PLANT, C. W.—Immigrant species recorded during 1996 from Bishops Stortford, Herts.: *Heliothis peltigera* (D. & S.), 17.vi.96; *Lithomoia solidaginis* (Hübner), 1.ix.96; *Cryphia algae* (Fabr.), 19.viii.96; and *Heliothis armigera* (Hübner), 19.viii.96. The latter three species were exhibited on behalf of J. Fish & J. Reeve.

PORTER, J.—*Zeuzera pyrina* (L.)—two females & a male illustrating the size variation within this species; *Eupithecia ultimaria* Boisd. with several examples collected as larvae at Brighton, W. Sussex, 8.vii.96; and *Hypena obsitalis* (Hübner)—a specimen bred from a larva found in Devon, 23.viii.96.

ROUSE, T.—A number of interesting species, mainly immigrants, taken in Kent during 1996. Most notable among these were the following: *Atolmis rubricollis* (L.), Densole, 4.vii.96; *Eurois occulta* (L.), one of three taken, Snargate, 4.ix.96; *Enargia paleacea* (Esp.), Dungeness, 1.ix.96; and *Deltote bankiana* (Fabr.), Dungeness, 22.vii.96.

Also included was an example of *Cryphia raptricula* (D. & S.), taken by K. Palmer at Dungeness, Kent, on 22.vii.96.

SHARPE, P.—A gynandromorph *Laothoe populi* (L.) and an example of *Autographa gamma* (L.) ab. *nigricans* (Spuler).

SIMMONS, M. J.—From Crowborough, E. Sussex, 1996, the following migrant species: *Hyles livornica* (Esp.), *Actinotia polyodon* (Cl.), *Spodoptera exigua* (Hübner), *Heliothis armigera* (Hübner), and *Heliothis peltigera* (D. & S.). The *A. polyodon* specimen occurred on 11.vi.96.

Also shown was a suspected immigrant example of *Eilema pygmaeola* (Doubt.) taken at Normans Bay, E. Sussex.

SIMS, I.—A number of local species comprising the following: *Cyclophora annulata* (Schulze), examples from Tugley Wood, Surrey, 2.viii.91, and Hambleden, Marlow, Bucks., 19.x.91 (ex larva); *Idaea vulpinaria atrosignaria* (Lempke), Chigwell Row, Essex, 5.vii.77 & 1.viii.77; *Plemyria rubiginata* (D. & S.), Lower Earley, Reading, Berks., 7.vii.91; *Colostygia olivata* (D. & S.), Lynton, Devon, 18.viii.93; *Cepphis advenaria* (Hübner), Hambleden, Marlow, Bucks., 29.v.89; *Ennomos autumnaria* (Werneb.), Loughton, Essex, 6.x.72; *Photedes fluxa* (Hübner), Bernwood Forest, Otmoor, Oxon., 31.vii.93; *Pyrrhia umbra* (Hufn.), Medmenham, Marlow, Bucks., 28.vii.96; *Diachrysia chryson* (Esp.), Thatcham, Reading, Berks., 27.vii.96.

SKINNER, B.—From Addington, Surrey: *Xanthorhoe designata* (Hufn.), a male with reduced central forewing band, 27.viii.96 (Plate II, Fig. 9); *Agrotis clavus* (Hufn.), four aberrant specimens, vii.96; and *Autographa gamma* (L.) ab. *nigricans* (Spuler), 27.viii.96.

Also shown, *Cabera exanthemata* (Scop.), a male with well-defined cross-lines from Dungeness, Kent, 19.viii.96 (Plate II, Fig. 10); *Luperina testacea* (D. & S.), extreme light and dark forms from Dorset and Surrey; and *Hadena caesia* (D. & S.), bred examples from Ardnamurchan, Argyll, and Treshnish, Isle of Mull.

Exhibited on behalf of R. Eden, *Acontia lucida* (Hufn.), a specimen taken at West Bexington, Dorset, 18.viii.96.

SPALDING, A.—A male example of *Agrotis herzogi* (Rebel) taken at Praze-an-Beeble, near Camborne, Cornwall, 22.xi.95 (Plate II, Fig. 16). The first British record of this species.

STERLING, M.—Examples of *Eupithecia ultimaria* Boisd. from Brighton and West Wittering, Sussex (ex. larvae); and *Cosmia diffinis* (L.) from unspecified localities in Eastern England, 15.viii.96.

STERLING, P. H.—*Mythimna turca* (L.) from Melbury Park, Dorset, 27.vi.96; and an albino example of *Catocala nupta* (L.) from Weymouth, Dorset on 12.ix.96. Also shown, *Hydrelia sylvata* (D. & S.), taken with others at Beaminster, Dorset, 14.vii.96.

by D. Hallett & M. Spencer; and *Catocala fraxini* (L.) taken at Horsey, Norfolk, 18.ix.96, by J. R. Langmaid and PHS.

SWIFT, S. & WALKER, D.—From the Browndown/Alver Valley area, Hampshire: examples of *Meganola albula* (D. & S.), 25.vii.96; *Calophasia humula* (Hufn.), 3.viii.96; *Heliothis armigera* (Hübner), 30.viii.96 & 23.ix.96; and *Trichophusia ni* (Hübner), 5.viii.96. Also shown were aberrations of *Agrotis exclamatoris* (L.), *Agrotis puta* (Hübner), and *Charanyca trigrammica* (Hufn.).

TOWNSEND, M.—A range of immigrant species recorded during three nights light-trapping at Worth Matravers, near Swanage, Dorset, 18.viii.96–20.viii.96. These included *Cyclophora puppillaria* (Hübner), *Thaumetopoea processionea* (L.), *Spodoptera exigua* (Hübner), *Heliothis armigera* (Hübner), and *Trichophusia ni* (Hübner).

In addition, *Tyta luctuosa* (D. & S.) from Long Wittenham, Oxon; and wild-caught and bred examples of *Heliothis peltigera* (D. & S.) exhibiting temperature variation.

WARNE, B. J.—A selection of migrant and resident species from Binstead, Ryde, Isle of Wight (unless otherwise stated). Most notable of these were as follows: *Hyles livornica* (Esp.), 14.vi.96, also recorded at Chale, I.O.W. on 13.viii.96; *Atolmis rubricollis* (L.), recorded from Parkhurst Forest, I.O.W., 25.vi.96 & 10.vii.96 (2); *Meganola strigula* (D. & S.), 11.vii.96, also recorded from Parkhurst Forest, 10.vii.96 (4); *Lithophane semibrunnea* (Haw.), 22.x.96; *Trichophusia ni* (Hübner), 16.viii.96; and *Chrysodeixis acuta* (Walk.), 27.x.95.

WEDD, D.—An extensive selection of bred or wild-caught local species. These included *Odontognophos dumetata hibernica* (Forder), specimens bred or taken in differing circumstances to show size variation; *Gnophos obfuscata* (D. & S.), examples of the Scottish and Irish forms, the exhibitor suggesting the need for subspecific status; *Lithosia quadra* (L.), recorded from three localities in Cos. Clare and Galway during 1996; *Hadena caesia mananii* (Gregs.), specimens from Doolin, Co. Clare, and Kilkieran, Connemara; *Luperina nickerlii demuthi* (subsp. nov.), the latter subspecies proving much harder to rear than the former; and *Thalera fimbriata* (Scop.), some examples bred ex. Dungeness female before the species became protected, the third generation producing a unique and striking aberrant male (Plate II, Fig. 5).

YOUNG, D.—From Scotland, examples of *Eurois occulta* (L.) and *Polia trimaculosa* (Esp.) bred from larvae found near Insh, Inv., v. 96; *Semiothisa carbonaria* (Clerck), and *Phragmatobia fuliginosa borealis* (Staud.), Newtonmore, Inv., v. 96, the latter species ex. pupa.

Additional species included *Synanthedon formicaeformis* (Esp.), ex. larvae, Chichester, W. Sussex; *Cossus cossus* (L.), New Forest, Hants., 30.vii.96; and *Idaea vulpinaria atrosignaria* (Lempke), Richmond Park, London, 12.vii.96.

YOUNG, M. R.—From Gruinard, Isle of Islay, S. Ebeudes, a recurrent aberration of *Lomaspilis marginata* (L.), 27.vii.96; and *Mythimna straminea* (Treit.), 27.vii.96, new to Scotland (taken by MRY & M. Harper).

#### BRITISH MICROLEPIDOPTERA

AGASSIZ, D. J. L.—*Gelechia senticetella* (Stdgr), Gravesend, Kent, 27.vii.1996; *Scythris limbella* (F.), Gravesend, Kent, 7.vi.1996; a pink form of *Hypsopygia costalis* (F.) Gravesend, Kent, 29.vii.1996.

BEAUMONT, H. E.—*Phyllonorycter leucographella* (Zell.) Elmfield Park, Doncaster VC63 mine on *Pyracantha* emerged 20.vi.1996, first Yorkshire record; *Coleophora ibipennella* Zell. [*ardeaepennella* Scott] Sandall Beat Wood, Doncaster VC63 29.vi.1992 larval case on oak, moth reared, Gibbing Greave Wood, Rotherham VC63 19.vii.1996, first confirmed Yorkshire records; *C. adjunctella* Hodgk.

Saltfleetby NNR, Lincs. VC54 1.vii.1984, new county record; *Caryocolum tricolorella* (Haw.) Wath Wood, Rotherham VC63 9.viii.1996, first VC63 record for over 100 years; *Epiblema grandaevana* (L. & Z.) Spurn VC61, 7.vi.1996 (leg. B. R. Spence), possibly resident locally; *Cydia fagiglandana* (Zell.) Gibbing Greave Wood, Rotherham VC63, 19.vii.1996 several, previously only unconfirmed 19th century records from Yorkshire; *Ancylosis oblitella* (Zell.) Spurn VC61, 29.vii.1996 (leg. B.R. Spence) first Yorkshire record; *Stenoptilia millieridactyla* (Bruand) [= *saxifragae* Fletch.] Dalby Forest VC62, 27.vi.1996, new VC record.

BLAND, K. P.—*Narycia duplicella* (Goeze) [*monilifera* (Fourc.)], Glen Moriston NH3917, VC96, 29.vi.1996, previously only known in Scotland from VCs 82 and 83; *Lampronia morosa* Zell. Seton Bents NT4376, E. Lothian VC82, 9.vi.1996; *Glyphipterix forsterella* (F.) Hannaston Wood NX5982, Kirkcudbrightshire VC73, 22.vi.1996, a new vice-county record; specimens also from Dalcroy Marsh NN7759, Perth. VC88, 19.vi.1996; *Exaeretia ciniflonella* (L. & Z.) Glen Affric NH2828, VC96, 28.viii.1996, flying in rain; *Reuttia subocellea* (Steph.) Linkim Shore NT9265, Berwicks. VC81 reared 9.vi.1996 from larval cases on *Thymus* 22.viii.1995; *Mompha subbistrigella* (Haw.) Blackford, Edinburgh NT2571, VC83 6.vi.1996, second Scottish record; *Scythris picaeppennis* (Haw.) Arthur's Seat, Edinburgh NT2873 15.vi.1996, last recorded there in 1852, first SE Scotland record since 1895; *Phalonidia manniana* (F. v. R.) Dalcroy Marsh NN7759, Perth. VC88, 19.vi.1996, third Scottish site; *Olethreutes arcuella* (Clerck) Glen Moriston NH3917, VC96, 29.vi.1996, most northerly record; *Phycitodes saxicola* (Vaugh.) bred from larva in flowerhead of *Tripleurospermum maritimum* collected 22.viii.1995 Linkim Shore NT9265, VC81, new VC record; *Athrips tetrapunctella* (Thunb.) Glen Fender Meadows NN8866 bred 22.v.1996 from larva on *Lathyrus montanus* collected 11.viii.1995; *Xystophora pulveratella* (H.-S.) Straloch Morraines NO0163, bred 22.v.1996 from larva on *Lathyrus montanus* collected 14.viii.1995.

BRITTON, M. R.—Moths bred or taken in 1996: *Psychoides filicivora* (Meyr.) Porlock, Somerset larvae 13.x.1995, emerged 1.iii.1996; *Phyllonorycter acerifoliella* (Zell.) Malton, Yorks. mines 28.ix.1995 emerged 20.iv.1996, Haxby, York mines 3.x.1995 emerged 27.vi.1996, Hop Grove, York mines 4.x.1995, emerged 15.iv.1996; *Gelechia rhombella* (D. & S.) Strensall Common, Yorks. larva 12.vi.1996 emerged 17.vii.1996; *Caryocolum blandella* (Dougl.) Scarborough, Yorks. larvae on *Stellaria holostea* 23.v.1996, emerged 17–27.vii.1996; *C. kroesnamiella* (H.-S.) Scarborough, Yorks., larvae on *Stellaria holostea*, 23.v.1996, emerged 26.vi–11.vii.1996; *Ancylys unguicella* (L.) Strensall Common, Yorks. 12.vi.1996; *Epinotia demarniana* (F. v. R.) Skipwith Common, Yorks. 23 & 25.vi.1996; *Strophedra weirana* (Dougl.) Bickleigh Vale, Devon larva 18.x.1995 emerged 21.v.1996; *Pammene fasciana* (L.) Merton, York from spongy oak gall 27.ii.1996 emerged 23.vi.1996; *Crambus ericella* (Hübner) Ribbleshead, Yorks. 21.vii.1996; *C. uliginosellus* (Zell.) Skipwith Common, Yorks. 18.vii.1996; *C. hamella* (Thunb.) Risley Moss, Cheshire 17.viii.1996; *Agriphila selasella* (Hübner) Skipwith Common, Yorks. 8.viii.1996; *Catoptria falsella* (D. & S.) Skipwith Common, Yorks. 6.viii.1996.

BROTHERIDGE, D. J.—*Monochroa hornigi* (Stdgr) new to Wiltshire?; *Sparganothis pilleriana* (D. & S.) new to Wiltshire?; *Sitochroa palealis* (D. & S.).

CLANCY, S. P.—Pyralidae from the Dungeness area taken in 1996, chiefly migrants: *Euchromius ocella* (Haw.) Greatstone, 10.viii.1996 (B. Banson); *Psammotis pulveralis* (Hübner) Lydd, Kent (two) 23.vii.1996 (K. Redshaw), Dungeness, Kent 27.vii.1996 (D. Walker); *Margaritita sticticalis* (L.) New Romney, Kent (three) 13–17.viii.1996 (K. Redshaw), Dungeness, Kent 20.viii.1996 (D. Walker); *Hypsopygia costalis* (F.) Lydd, Kent 14.viii.1996 a



unicolorous aberration; *Acrobasis tumidana* (D. & S.) Dungeness area, Kent (four out of 20 seen at various dates) 1996; *Sciota hostilis* (Steph.) New Romney, Kent 7.vi.1996 (K. Redshaw).

CLARKE, J.—*Margaritia sticticalis* (L.) from Surrey, and Findhorn, Morayshire where six were taken on 15.viii.96.

COOK, R. R.—*Eudonia delunella* (Staint.) Piddleswood, Dorset 13.vii.1996; *Anania funebris* (Ström) Burren, Co. Galway, vi.1996; *Mecyna flavalis* (D. & S.) Afton Down, Isle of Wight, 28.vii–3.viii.1996; *Pyrausta sanguinalis* (L.) Loch Bunny, Co. Clare, 7.vi.1996; *Crambus silvella* (Hübner) Matley Bog, Hants, 29.vii.1996.

DAVIS, A. M.—*Commophila aeneana* (Hübner) Rye Common VC12, 1994; *Aethes francillana* (F.) Berks. (close to Hants, border) 1996; *Phiaris schulziana* (F.) Shorthearth Common VC12 in floating bog; *Crambus ericella* (Hübner) Ayrshire VC75, 1995; *Pediasia contaminella* (Hübner) Yateley Common, Hants., common, viii.1996; *Oncocera semirubella* (Scop.) Surrey; *Mecyna flavalis* (D. & S.); *Elegia similella* (Zinck.). Also a display about the Pyralid and Plume Recording Scheme.

ELLIOT, B.—*Rhigognostis senilella* (Zett.) bred from larvae on *Hesperis* vii.1996; *Catoptria furcatellus* (Zett.) four, Shetland late vii.1996; *Stenoptilia "picardi Gibeaux"*, abundant amongst *Succisa* at Urafirth, Shetland vii.1996.

EMMET, A. M.—Microlepidoptera from Saffron Walden, Essex, VC19: *Luffia lapidella* (Goeze), or possible an alate male *L. ferchaultella* (Steph.), 12.vii.1992; *Gelechia senticetella* (Stdgr), 25.viii.1996, new to VC19; *Platytes cerussella* (D. & S.) 21.vii.1996; *Assara terebrella* (Zinck.) 18.vii.1995 & 8.viii.1996. From Little Oakley, Essex, VC19: *Coleophora fuscicornis* Zell., adults active in sunshine 14.vi.1996, possibly its only British locality; *Oncocera genistella* (Dup.) larvae abundant 14.vi.1996, moths emerged 18–26.vii.1996, new to Essex. Species new to Ireland, reared from larvae collected ix.1995; *Phyllonorycter geniculella* (Rag.) mines common in Cos Tyrone VC H36, Down VC H38, Antrim VC H39 and Londonderry VC H40, specimen exhibited from Dungannon H36 emerged indoors 15.iii.1996; *Coleophora milvipennis* Zell. Killaun NR, Co. Offaly VC H18, larval cases common on *Betula* 16.ix.1995, moths bred 20–26.vi.1996.

HARLEY, B. H.—A box of lepidoptera from Islay, with a few from Jura and Colonsay, including *Yponomeuta evonymella* (L.); *Ypsolopha dentella* (F.); *Apotomis semifasciana* (Haw.); *Crambus pascuella* (L.); *Catoptria pinella* (L.); *Eudonia mercurella* (L.); *Elophila nymphaeata* (L.); *Nymphula stagnata* (L.); *Aphomia sociella* (L.).

HECKFORD, R. J.—*Ischnoscia borreonella* (Mill.) Torquay, Devon VC3 16 & 18.viii.1996, first record for 70 years; *Eulamprotes phaeella* Heck. & Lang., Whitewell, Inverness-shire VC96, 1.vii.1996; *Cochylis flaviciliana* (Westw.) Hammerley Down, Glos. VC34, 5.vii.1996; *Bactra lacteana* Caradja, Trowlesworthy Warren, Devon VC3, 14.vii.1996 2 specimens, new to Britain (Plate 11, Fig. 15); *B. furfurana* (Haw.) and *B. lancealana* (Hübner) shown for comparison; *Pammene ochsenheimeriana* (L. & Z.) Newpark Waste, Devon VC3 bred from *Picea sitchensis* 5.v.1996, new to Devon and new food-plant record for Britain; *Cydia amplana* (Hübner) Plympton, Plymouth VC3, 18.19 & 20.viii.1996. *C. coniferana* (Ratz.) Newpark Waste, Devon VC3 bred from *Picea sitchensis* 7.vi.1996; *Euchromius ocella* (Haw.) Plympton, VC3 18.viii.1996; *Pempelia obductella* (Zell.) Birling, Kent VC16, bred from *Origanum vulgare* 22 & 24.vii.1996.

HENWOOD, B.—*Cydia amplana* (Hübner) Abbotskerswell, Devon 17.viii.1996; *Phlyctaenia perhucidalis* (Hübner) Abbotskerswell, Devon 31.vii.1996; *Pempelia formosa* (Haw.) Abbotskerswell, Devon 23.vii.1996.



HIPPERSON, D.—*Duponchelia fovealis* Zell. (Pyrilidae) Thorpe St. Andrew, near Norwich 10.ix.1996, New to Britain (Plate II, Fig. 14).

HONEY, R. M.—Species recorded from the Natural History Museum garden. London: *Denisia albimaculea* (Haw.); *Gelechia turpella* (D. & S.); *Tachystola acroxantha* (Meyr.) the last named being recorded on 5.vi., 17.vi., 11.ix. and 21.x.1996.

KNILL-JONES, S. A.—Lepidoptera from the Isle of Wight VC10. *Morphaga choragella* (D. & S.) Parkhurst, 22.vii.1996; *Ethmia bipunctella* (F.) Freshwater, 21.viii.1996, new VC record; *Dichomeris marginella* (F.) Freshwater, 3.viii.1996; *Acleris cristana* (D. & S.) Binstead, iv.1996; *Sparganothis pilleriana* (D. & S.) Freshwater, 13.viii.1996; *Crambus perllella* (Scop.) f. *warringtonellus* Staint. Freshwater, 27.vii.1996; *Dipleurina lacustrata* (Panz.) Parkhurst, 22.vii.1996; *Elophila nymphaeata* (L.) Freshwater, 18.vi.1996; *Evergestis extimalis* (Scop.) Freshwater, 15.viii.1996; *Udea fulvalis* (Hübner) four, Freshwater, viii.1996; *Dolicharthria punctalis* (D. & S.) Freshwater, vii.1996; *Aglossa pinguinalis* (L.) Freshwater, 5.viii.1996; *Ostrinia nubilalis* (Hübner) Freshwater, 7.viii.1996; *Oncocera palumbella* (D. & S.) vi-vii.1996; *Microthrix similella* (Zinck.) Parkhurst, 22.vii.1996, new VC record; *Phycitodes saxicola* (Vaugh.) Parkhurst, 22.vi.1996; *Ephestia parasitella* (Stdgr) ssp. *unicolorella* (Stdgr) Parkhurst, 22.vii.1996; *Marasmarcha lunaedactyla* (Haw.) Tennyson Down, 18.vii.1996; *Capperia britanioidactyla* (Greg.) Parkhurst, 22.vii.1996; *Amblyptilia acanthadactyla* (Hübner) Freshwater, various dates 1996.

LANGMAID, J. R.—*Bankesia douglasii* (Staint.) a series bred from Fareham, Hants. cases 27.i.1996, moths emerged during ii.1996; *Yponomeuta irrorella* (Hübner) bred from *Euonymus europaea* Meopham, Kent 10.vi.1996; *Coleophora fuscicornis* Zell. two, Little Oakley, Essex, 14.vi.1996; *Monochroa hornigi* (Stdgr) Thursley Common, Surrey, 7.vi.1996, new to Surrey and an early date.

LOWE, C. D.—Species recorded during an A-level investigation on the Heart and Dart, *Agrotis exclamatoris* (L.) and others in a Breconshire (Llangorse) garden. *Dichrorampha montanana* Dup. 24.vi.1996. *Coleophora taeniipennella* H.-S., 18.vii.1996 (new county record), *Coleophora lusciniapennella* (Tr.), 23.vii.1996, *Amblyptilia acanthadactyla* (Hb.), 9.viii.1996, *Oliodia schumacherana* Fab., 9.viii.1996, cream-banded form *Cydia splendana* (Hb.), 9.viii.1996, (second county record), *Orthopygia glaucinalis* (L.), 14.viii.1996 (new county record), *Mompha propinquella* (Stt.), 18.viii.1996 (second county record), *Pyla fusca* Haw. 18.viii.1996 (second county record), *Galleria mellonella* (L.), 19.viii.1996 (new county record), *Amblyptilia punctidactyla* (Haw.), 23.ix.1996.

LOWE, N. R.—Records from Breconshire (VC42) and Pembrokeshire (VC45). *Taleporia tubulosa* (Retz), reared Allt House Wood, Brecon., 8.vi.1996, emerged 12.vi.1996, *Triaxomera parasitella* (Hb.) Allt House Wood, Brecon., 12.vi.1996, *Argyresthia curvella* (L.) Allt House Wood, Brecon., 24.vi.1996, *Psychoides filicivora* Meyr. Old Mill Grounds, Pembs. 18.v.1978 (first West Wales record), *Coleophora lutipennella* (Zell.), Llangorse, Brecon., 15.vii.1993, *Coleophora caespitiella* Zell., Allt House Wood, Brecon., 28.vii.1991, *Teleiodes vulgella* Hb., Llangorse, Brecon., 4.vii.1996, *Blastobasis decolorella* (Woll.), Allt House Wood, Brecon., 15.vi.1996, *Cnephasia communana* (H.-S.), Allt House Wood, Brecon., 15.vi.1996, *Cydia fagiglandana* (Zell.), Allt House Wood, Brecon., 15.vi.1996.

MCCORMICK, R.—*Ypsolopha sequella* (Clerck) Chardstock, Devon, 16.viii.1996; *Schiffermuelleria grandis* (Desv.) Wray Cleave, near Moretonhampstead, Dartmoor, 21.vi.1995 (another seen at Trendlebere Down, Dartmoor, 25.vi.1995); *Catoptria falsella* (D. & S.) Wray Cleave, Dartmoor 1.viii.1996; *Anerastia lotella* (Hübner) Dawlish Warren, 19.vii.1996; *Ancylosis oblitella* (Zell.) Dawlish Warren 19.vii.1996,

Axmouth Saltings 4.viii.1996; *Amblyptilia acanthadactyla* (Hübner.) Teignmouth 9.vi.1996, Prawle Point, 7.vi.1996; *Eudonia murana* (Curt.) Haverthwaite, Cumbria, 10.ix.1996; *Pterophorus tridactyla* (L.) [*fuscolimbatus* auctt.] larvae at Cadgwith Bay & Kynance Cove 27.vi.1996.

O'KEEFFE, D.—*Coleophora idaeella* Hofm. bred from cases on *Vaccinium vitis-idaea*, Aviemore; *C. glitzella* Hofm. bred from cases on *Vaccinium vitis-idaea*, Aviemore; *Esperia oliviella* (F.) near Dunkirk, Kent 26.vi.1996; *Scoripalpa clintoni* Pov. bred from dead stems of *Rumex crispus*, Inverneill, Argyll, collected 17.iv.1996; *Caryocolum alsinella* (Zell.) (possibly a new subspecies) bred from seed capsules of *Minuartia verna*, spring sandwort, growing in cracks in limestone pavement at Cahergrillaun, Co. Clare, Ireland, 1996; *C. alsinella semidecandrella* Threlf. specimens from Kent for comparison; *Mompha subdivisella* Bradley, Petts Wood, Kent, bred from larvae in stems of *Epilobium hirsutum* viii.1996, moths bred ix.1996; *Archips crataegana* (Hübner.) with a specimen of *A. xylosteana* (L.) for comparison; *Cydia cosmophorana* (Treits.) specimens bred from old galls of *Retinia resinella* (L.) Moormore, Aviemore, 1996; *Mariuca vitrata* (F.) [= *testudalis* (Gey.)] Petts Wood, Kent 27.vii.1996; *Microthrix similella* (Zinck.) Petts Wood, Kent 1996.

PARSONS, M. S.—*Dahlica inconspicua* (Staint.) Dungeness, Kent, reared from larvae collected 2.iii.1996; *Nemapogon clematella* (F.) Chedworth Woods, Glos. bred from larvae collected 25.v.1996; *Denisia albinaculea* (Haw.) South Kensington, London, 5–6.vi.1996; *Tachystola acroxantha* (Meyr.) South Kensington, London 17.vi.1996; *Ethmia fumerella* (F.) Holywell, Eastbourne, E. Sussex, 13.viii.1996; *Agonopterix purpurea* (Haw.) Welshbury Woods, Glos. 20.iv.1996; *Caryocolum proximum* (Haw.) South Kensington, London reared from larvae collected 27.v.1996; *Gypsonoma oppressana* (Treits.) Raynes Park, Surrey, 26.vi.1996; *Selania leplastriana* (Curt.) Kingsdown, E. Kent, 6.vii.1996; *Cydia microgrammana* (Guen.) Folkestone Warren, E. Kent, 6.vii.1996; *Ancylosis oblitella* (Zell.) Holywell, Eastbourne, E. Sussex, 14.vii.1996, Friston Forest, E. Sussex, 18.viii.1996; *Cnaemidophorus rhododactyla* (D. & S.) Holywell, Eastbourne, E. Sussex, reared from larvae 15.vi.1996.

PICKLES, A. J. & C. T.—*Catoptria margaritella* (D. & S.) Trinafour, Perth.; *Udea uliginosalis* (Steph.) Ben Lawers, Perth.; *Anania funebris* (Ström) Burren, Co. Clare; *Margaritia sticticalis* (L.) Lymington, Hants.

PORTER, J.—*Pyrausta aurata* (Scop.) with gold spots on forewing missing, Surrey, 25.viii.1996; *Nomophila noctuella* (D. & S.), a series taken in 1996 illustrating variation.

SIMS, I.—*Micropterix mansuetella* Zell. Cothill Fen, Berks. 1.vi.1996; *M. aureatella* (Scop.) Burnham Beeches, Bucks. 2.vi.1996; *M. aruncella* (Scop.) Moor Copse, Reading, Berks. 31.v.1996; *M. cathella* (L.) Medmenham, Marlow, Bucks. 6.v.1996; *Ectoedemia intimella* (Zell.) Lower Earley, Reading, Berks. reared from larvae 12.xi.1995, emerged indoors 10.vi.1996; *E. angulifasciella* (Staint.) Dinton Pastures, Reading, Berks. mines in *Rosa*, 22.x.1995, emerged indoors 30.vi.1996; *E. quinquella* (Bedell) Lower Earley, Reading, Berks. mines 12.xi.1995, emerged indoors 29.v.1996; *Stigmella obliquella* (Hein.) Medmenham, Bucks. mines 19.x.1995, emerged indoors 29.v.1996; *S. trimaculella* (Haw.) Medmenham, Bucks. mines 28.ix.1995, emerged indoors 12.v.1996; *Tischeria ekebladella* (Bjerk.) Lower Earley, Reading, Berks. mine 12.xi.1995, emerged indoors 22.v.1996; *T. dononaea* Staint. Lower Earley, Reading, Berks. mine 12.xi.1995, emerged indoors 19.v.1996; *Incurvaria oehlmanniella* (Hübner.) Buckleberry Upper Common, Reading, Berks. 1.vi.1996; *Adela croesella* (Scop.) Oaken Grove, Medmenham, Bucks. 5 & 13.vi.1996; *Luffia lapidella* (Goeze) Cornwall, reared from first instar larvae 19.ix.1995, male

emerged 30.iii.1996, female 10.iii.1996, both kept at 25°C; *L. ferchaultella* (Steph.) Lower Earley, Reading, Berks. females and cocoons collected 12.iv.1990, emerged 29.v.1990; *Nemapogon variatella* (Clem.) Burnham Beeches, Bucks. larvae 23.iii.1996, emerged 5 & 8.v.1996; *N. clematella* (F.) Cothill Fen, Berks. bred from larva in *Diatrype disciformis* on coppiced hazel, emerged indoors 26.v.1996, also from Icknield Way, Watlington, Oxon 20.iii.1996, emerged indoors 2.vii.1996; *Niditinea fuscella* (L.) Lower Earley, Reading, Berks. 7.viii.1996; *Tinea trinetella* Thunb. Medmenham, Marlow, Bucks. bred from blackbird's nest 5.i.1990, emerged 15–17.iv.1990; *Bedellia somnulentella* (Zell.) Instow, Devon, mining *Calystegia sepium* 25.ix.90, emerged 12.x.1990, Twyford, Berks. mines 29.ix.1996 emerged 14.x.1996; *Bucculatrix thoracella* (Thunb.) Medmenham, Marlow, Bucks. larvae on *Tilia* 21.ix.1995, emerged indoors 1.iii.1996; *Caloptilia betulicola* (Her.) Bear Wood, Wokingham, Berks. larva 9.vi.1996 emerged 21.vi.1996, larva 11.vii.1996 emerged 28.vii.1996; *C. alchimiella* (Scop.) Medmenham, Bucks. 26.x.1992 emerged indoors 27.ii.1993, Winnersh Triangle, Berks. 24.x.1992 emerged indoors 19.ii.1993; *C. robustella* Jäckh. Lower Earley, Reading, Berks. 26.x.1992 & 3.xii.1989 emerged indoors 21.ii.1993 & 5.iii.1990, Medmenham, Bucks. 26.x.1992, emerged indoors 28.ii.1993; *Phyllonorycter harrisella* (L.) Twyford, Berks. 9.xi.1991 emerged indoors 9.ii.1992, Lower Earley, Reading, Berks. 28.x.1991 emerged indoors 12.ii.1992; *P. heegeriella* (Zell.) Hainault Forest, Essex 6.xi.1992 emerged indoors 23.ii.1993, Medmenham, Bucks. 25.vi.1990 emerged 5.vii.1990; *P. tenerella* (Joannis) Hainault Forest, Essex 6.xi.1995 emerged indoors 21.ii.1996, Dinton Pastures, Reading, Berks. 22.x.1995 emerged indoors 22.ii.1996; *Coleophora limosipennella* (Dup.) Medmenham, Bucks. cases 24.v.1996 emerged 28.vi.1996; *C. viminetella* Zell. Medmenham, Bucks. cases 25.vi.1996, emerged 26.vi.1996; *C. hemerobiella* (Scop.) Lower Earley, Reading, Berks. cases 6.v.1995 emerged 3.vii.1995; *C. anatipennella* (Hübner.) Lower Earley, Reading, Berks. case 8.v.1989, emerged 13.vi.1989; *C. palliatella* (Zinck.) Burnham Beeches, Bucks. case 13.v.1990, emerged 8.vi.1990.

SKINNER, B. F.—*Agriphila inquinatella* (D. & S.) Dungeness, Kent 19.viii.1996, a dark brown male with pale sub-marginal cross band similar to that figured in *Br. J. Ent. nat. Hist.* 8, Pl 3.

SMITH, E. G. and M. H.—*Opostega salaciella* (Treits.) Spye Park VC7, 3.ix.1996 flying over *Rumex acetosa*, a late date compared with published British sources; *Telechrysis tripuncta* (Haw.) Bullen Hill Farm, Steeple Ashton VC8, 11.vi.1996; *Parachronistis albiceps* (Zell.) Imber Village VC8, 6.viii.1996; *Cosmopterix orichalcea* Staint. Longleat VC8 22.v.1996, one of a short series taken in a commercial coniferous woodland on dry acid soil; *Merrifieldia baliodactylus* (Zell.) Ford VC7, 3.vii.1995, new VC record; *Pselnophorus heterodactyla* (Müll.) Cranham Woods, Glos. bred 14.vi.1996 from *Mycelis muralis* collected 13.v.1996; *Euleioptilus carphodactyla* (Hübner.) Ford VC7, flying over *Inula conyzia* 21.vi.1994, new VC record.

STERLING, M. S.—*Nemapogon variatella* (Clem.) Burnham Beeches, Bucks VC24, bred from *Piptoporus* collected ii.1996; *N. granella* (L.) Epping, Essex VC18, bred from *Piptoporus* collected iv.1996; *Archinemapogon yildizae* (Koçak) Insh VC96, bred from *Fomes*, 1996; *Argyroplote arbutella* (L.) Newtonmore VC96, bred from *Arctostaphylos*; *Ancylys paludana* (Barr.) Wicken Fen VC29, bred from *Lathyrus palustris*.

STERLING, P. H.—*Dahlica inconspicua* (Staint.) a case found under limestone scree at Flowers Barrow, Dorset VC9, 2.xii.1995, emerged iii.1996, new to Dorset; *Banksia douglasii* (Staint.) Fareham, Hants. VC11, case found 27.i.1996, emerged



ii.1996; *Coleophora ochrea* (Haw.) a case found on *Helianthemum* at Punfield Cove, Dorset VC9, 17.v.1996, emerged vii.1996; *Biselachista trapeziella* (Staint.) Lydford Gorge, Devon VC3, larva on *Luzula sylvatica* 26.iv.1996 emerged 26.v.1996; *Argolamprotes micella* (D. & S.) Weymouth, Dorset VC9, 14.vii.1996; *Monochroa suffusella* (Dougl.) Studland, Dorset VC9, larva found in *Eriophorum angustifolium* 2.v.1996, emerged 12.vi.1996, first record of larva in Britain; *Gelechia senticetella* Stdgr Ampfield, Hants VC11, 31.vii.1996; *Brachmia lutatella* (H.-S.) Gad Cliff, Dorset VC9, larva in tube on *Brachypodium sylvaticum* 6.vii.1996, emerged 31.vii.1996; *Mompha divisella* H.-S. Breage, Cornwall VC1, three galls on *Epilobium montanum* 10.viii.1996, emerged 3.ix.1996; *Scythris empetrella* K. & N. many larvae in tubes in sand under *Calluna/Erica* at Studland, Dorset VC9, 2.v.1996, emerged 14.vi.1996, first record for many years; *Cydia amplana* (Hüb.) Portland Bird Observatory, Dorset VC9, viii.1996 taken by M.Cade; *Dioryctria schuetzeella* Fuchs Ampfield, Hants VC11, 31.vii.1996.

UFFEN, R. W. J.—*Commophila aeneana* (Hüb.) Commonswood, Welwyn Garden City, Herts. 26.vi.1996, new to Hertfordshire.

WARNE, B. J.—Pyrilidae from Binstead, Ryde, Isle of Wight VC10. *Scoparia subfusca* Haw. 25.v.1996; *Evergestis pallidata* (Hufn.) 9.viii.1996; *Palpita unionalis* (Hüb.) 19.viii.1996; *Pempelia genistella* (Dup.) 6.vii.1996; *Homoeosoma sinuella* (F.) 11.vii.1996.

YOUNG, M. R.—Scarce Scottish lepidoptera: *Stigmella spinosissimae* (Waters) bred *Rosa pimpinellifolia* Coul Links, Embo VC107 26.v.1996 by Philip Entwistle; *Epermenia falciformis* (Haw.) [*illigerella* sensu auctt.] Guinard, Islay VC102 24.vii.1996, new to Scotland; *Ethmia pyrausta* (Pallas) Glas Maol, Forfar VC90 17.vi. & 6.vii.1996 collected by Richard Smith (Plate II, Fig. 13), only previous British record in VC107 in 1853 by E.C. Buxton; *Caryocolum blandelloides* Karsholt Coul Links, Embo VC107, 19.vii.1996, discovered at the same locality by R.J.B. Hoare in 1994; *C. junctella* (Dougl.) Migdale Wood, Bonar Bridge VC107, 25.iii.1996, beaten from *Pinus sylvestris* by Philip Entwistle; *Piniphila bifasciana* (Haw.) Spinningdale, Dornoch VC107, 6.vii.1996, collected by Philip Entwistle, also recorded from Banff, VC94 in 1996.

## FOREIGN LEPIDOPTERA

CORLEY, M. F. V.—Phycitinae (Pyrilidae) from Portugal. A total of 58 species were exhibited, about two-thirds of the species recorded in Portugal. Sixteen species

### PLATE II ANNUAL EXHIBITION 1996

1	2	3
		5
	4	
		6
7	8	
9	10	11
13	14	15
	17	18

- 1: *Chloantha hyperici*, Dungeness, Kent, 20.viii.1996, D. Walker (S. Clancy). 2: *Mythimna impura*, M. Parsons. 3: *Noctua janthe*, melanic. Cambs., 20.viii.1996, R. Revel/BMNH. 4: *Dendrolimus pini*, Freshwater, LoW., 12.viii.1996, S. Knill-Jones. 5: *Thalera limbialis*, bred, F3, Dungeness, Kent, 17.vii.1992, D. Wedd. 6: *Philudoria potatoria*, Sandwich, Kent, 13.vii.1996, A. Dobson. 7: *Electrophaes corylata*, Loch Tummel, Perthshire, 2.vii.1996, S. Pitts. 8: *Gymnoscelus rufilasciata*, West Hill, E. Devon, 20.x.1996, P. Baker. 9: *Xanthorhoe designata*, Addington, Surrey, 27.viii.1996, B. Skinner. 10: *Cabera exanthemata*, Dungeness, Kent, 19.viii.1996, B. Skinner. 11: *Thera cognata*, Shetland Mainland, bred 1996, B. Elliott. 12: *Hadena bicurris*, Vendée, France, 21.vii.1995, N. Hall. 13: *Ethmia pyrausta*, Glas Maol, Forfar, 6.vii.1996, M. R. Young. 14: *Duponchella lvealis*, Norwich, 10.ix.1996, D. Hipperson. 15: *Bactra lacteana*, Trowles-worothy Warren, Devon, 14.vii.1996, R. J. Heckford. 16: *Agrotis herzogii*, Prazé-an-Beeble, Camborne, Corn. 22.xi.1995, A. Spalding. 17: *Etiella zinckenella*, Portalegre, Portugal, W. F. V. Corley. 18: *Lomaspiis marginata*, Hamstreet, Kent, 2.vii.1996, D. Brown.





ANNUAL EXHIBITION 1996



have been added to the Portuguese List in the last eight years, and many more are likely to be added by further collecting. The Phycitinae is the largest subfamily of Pyralidae in the Iberian Peninsula, and the most difficult group for identification. The problem is in part due to the lack of literature (although nearly half the species are now treated in Microlepidoptera Palaearctica), and in part to the difficulty of assigning an unidentified specimen to the correct genus, as quite unrelated species may look remarkably similar (e.g. *Pempelia genistella* Dup. and *Aporodes florella* Mann), and also because many genera contain only one or two Iberian species; some genera contain species that look dissimilar (e.g. *Oncocera*, *Pempelia*, *Phycita*, also compare *Sciota coenulentella* with the British *Sciota* species). A few species are very variable or dimorphic, and this can also cause confusion (*Pempelia palumbella* (D.& S.), *Ephestia parasitella* Stdgr). The genus *Pempeliella* is particularly troublesome, as there are a number of species, all of similar aspect, and although specimens can be readily separated on genitalic characters, it has not yet proved possible to attach the right names to them.

Another taxonomic vexation is the attribution of subspecific names to the Iberian forms of species in several genera. This is most prevalent in genera such as *Phycitodes* and *Ephestia* where the species are not particularly easy to distinguish. In *Ephestia* the exhibitor has found specimens that appear to belong to non-Iberian subspecies in the same localities as Iberian subspecies. *Pompelia palumbella liviella* Zerny is the subspecies supposedly found in the southern parts of Spain and Portugal. The three specimens exhibited, all from the Algarve, show the species is polymorphic within the area and therefore no subspecific name should be used. *Ephestia parasitella* has two common forms, one closely resembling that found in Britain and the other with dark grey ground colour that obscures the forewing markings. Surely the latter is the form Staudinger named *unicolorella*, yet the name is currently applied in the literature to the British form. As with *Pompelia palumbella*, the two forms are sympatric, so that treating them as subspecies is incorrect. On the other hand, the Iberian *Acrobasis consociella* Hübner is distinctive and of uniform appearance and may merit subspecific status.

Several species known in Britain as pests of stored products or imported fruit live outside in Portugal, e.g. *Cryptoblabes gnidiella* Mill., *Plodia interpunctella* Hübner, *Ephestia* and *Cadra* species. The specimen of *Epischia banksiella* Rich. is the first record from mainland Europe. Hitherto it was known only from England, Wales and the Channel Islands. The specimen exhibited is the only one found; a search for larvae at two sites was unsuccessful.

CROW, M.—A variation of *Plebicula escheri* Hübner collected Meysomme, Dordogne, France, 3.iv.1990. (Plate 1, Fig. 3).

GOATER, B.—(1) A series of photographs depicting habitats in the vicinity of Jukkasjärvi, Swedish Lapland, including BENHS member Stig Torstenius and his son, Björn, in the foreground.

(2) A selection of Lepidoptera from Swedish Lapland, June–July, 1996. At this time of year the sun never sets. Nevertheless, the majority of noctuids fly between the hours of 2130 and 0400. Lamping is out of the question, sugar is usually unproductive, and hence every specimen has to be caught with a net. Several species fly around the tops of the spruce trees growing along the margins of bogs, and a long-handled net must be used. The exhibitor used one with a fibre-glass handle in three sections, which extended to 5 metres. The following species were shown: Zygaenidae: *Zygaena exulans* Hochenwarth—extremely abundant on rather dry, open moorland; Arctiidae: *Paractia lapponica* Thunb.—flies in warm sunshine during the afternoon over boggy moorland, resembling a small fritillary, several

species of which occur in the same biotope: Noctuidae: *Syngrapha parilis* Hübn.—fresh male specimens attracted between 1500 and 1800 hrs to pheromone set out amongst *Betula nana* on boggy moorland; *Sympistis heliophila* Payk.—very common flying by day in a variety of habitat; *Lasionycta skraelingia* H.-S.—common but difficult to catch flying fast round the tops of spruces between 2100 and 2230 hrs; *Anartomima bohemanii* Stdgr.—similar habits to the former species, but less common and flying a little later in the night; *Xestia alpicola* Zett.—the small, dark form from Lappland compared with enormous, pale subsp. *iveni* Huber from southern Sweden and Finland, well-marked, reddish subsp. *ryffelenensis* Oberth. from the French Alps and, most beautiful and variable of all the races, subsp. *alpina* H. & W. from the Scottish Highlands; *X. tecta* Hübn.—males fly commonly between 2300 and 0300 hrs, fast and low over boggy moorland, and females, which are seen much more rarely, during the afternoon at a more leisurely pace; *X. speciosa* Hübn.—the smaller, darker form from Lappland compared with specimens from southern Sweden and Finland; *X. laetabilis* Zett.—flies rather slowly and weakly about 1 m above the ground in spruce forest from around 2300 hrs. Its sibling, *X. distensa* Evers., distinguishable on genitalia, occurs on the same ground and emerges a few days later. None of the specimens caught turned out to be this species; *X. borealis* Nordstr.—rather uncommon flying gently around the tops of spruces during the night; *X. gelida* Sparre-Schneider—rather common flying briskly at low level amongst well-grown spruce, 2300–0300 hrs.

(3) A few interesting species from Central and Eastern Sweden: (a) from Dalarna—Notodontidae: *Furcula furcula* Cl.—a very dark specimen compared with a normal English specimen; Noctuidae: *Xestia sincera* H. S. and *X. rhaetica* Stdgr specimens taken at light during the short period of semi-darkness in an ancient spruce forest; *Acronieta auricoma* (D. & S.)—dark specimens from the same locality compared with typical ones from France; *Poliubrya umovii* Evers.—two specimens of the rare and difficult species from the same locality; *Apamea rubrivena* Treits.—also from this locality, (b) from a coastal locality in Västerbotten. *Athetis lepigone* Möschler and *A. pallustris* Hübn., found flying together over sandy shingle in daylight from 2200 hrs. *A. lepigone* is a very local species, the foodplant of which is *Lathyrus maritimus*, while *A. pallustris* is more widespread in Scandinavia.

HALL, N.—(1) Heterocera from the Canary Islands a) Fuerteventura, December 1995: (i) Pyralidae: *Spoladea recurvalis* (F.), of which only two specimens were seen in a fortnight: by contrast, on Gran Canaria in March 1996, the moth was abundant, flying all day (though especially early and late), often among *Rumex*. They usually came to rest on the undersurface of the leaves. They also came to light in small numbers. (ii) Geometridae: *Eucrostes simonyi* Rbl, an 'emerald' which rests with its wings in a characteristic roof-like position. (iii) Noctuidae: *Eublemma cochyloides* Gn. These flew around *Launea* bushes early and late. Specimens from Spain were shown for comparison. (iv) *Cucullia calendulae hermiguae* Pink. & Bac. (b) Gran Canaria, March 1996: Pyralidae: *Pseudarenipses insularum* Speidel & Schmitz. Geometridae: *Scopula guancharia* Alph., *Idaea charitata* Rbl. Sphingidae: *Hippotion celerio* L., Noctuidae: *Pandesia robusta* Walk., *Cosmophila flava* F., *Characoma nilotica* Rgnhfr, *Thysanoplusia orichalcea* F., *Ctenoplusia limbirena* Gn., *Chrysodeixis chalcites* Esp. bred ex larva, *Condica capensis* Walk., *Caradrina rebeli* Stdgr. *Spodoptera exigua* Hübn. bred ex larva, *Euxoa canariensis* Rbl, *Agrotis trux* Hübn.

(2) An extreme aberration of *Hadena bicurris* Hufn. which was exhibited in 1995 as an unidentified hadenid aberration from Ile d'Olonne, Vendée, France. It was shown again this year, photographed (Plate II, Fig. 12) and subsequently dissected and found to be a male of this species.



HONEY, M. R.—on behalf of The Department of Entomology, The Natural History Museum, London, (1) A drawer showing the 'red' *Catocala* species of Europe. There are 24 species of the genus *Catocala* recorded for Europe, of which only six occur in Britain (for comparison, there are 110 species in north America!). Only four of the British species have red hindwings and these were exhibited along with the other European species for comparison. A brief indication of the European distribution was given for each species. *Catocala sponsa* L. widespread; *C. dilecta* Hübn. southern and eastern; *C. nupta* L. widespread; *C. adultera* Men. eastern and northern; *C. elocata* Esp. fairly widespread; *C. oberthuri* Austaut southern Spain; *C. deducta* Evers. "Russia"; *C. puerpura* Giorna eastern and southern Europe; *C. optata* God. western Mediterranean; *C. promissa* (D.& S.) widespread; *C. electa* View. fairly widespread; *C. conjuncta* Esp. Mediterranean; *C. lupina* H.-S. eastern and southern Europe; *C. pacta* L. northern and eastern Europe.

LANGMAID, J. R.—Coleophoridae: *Coleophora chamaedryella* H.-S. Two specimens with their larval cases, bred from *Teucrium chamaedrys*. Found at St Adrien, Seine-Maritime, France, on the weekend joint Field Meeting between the BENHS and the Normandy Lepidopterists Society.

LUCKENS, C. J.—Butterflies from Corsica and southern France taken between 13–23 July 1996. In terms of species diversity, Corsica has a somewhat impoverished butterfly fauna but shares with the neighbouring island, Sardinia, a number of interesting endemics. During the visit, all of these species and subspecies save the exclusively vernal *Euchloe insularis* Stdgr were encountered, though many were present in very low numbers or found as single examples. The following were exhibited: single specimens of *Pyrgus armoricanus rufasaturata* Vty and *Aglais ichnus* Bonelli; a variable series of *Argynnis paphia* L., by no means all of which were f. *immaculata* Bellier, the "usual" Corsican form; *Plebejus idas bellieri* Oberth. was expected to be difficult to find, as it is seldom included in collecting lists, but in the event it was discovered in a number of localities, and in one place a female was watched ovipositing on a stunted plant of *Genista corsica*; on the Col de Vizzavna, *idas* flew beside the road, but higher up it was replaced by *Plebejus argus corsicus* Bellier, a race with blue-washed females and an unusually pale-spotted underside; the Corsican Swallowtail, *Papilio hospiton* Gn. was seen in small numbers in one locality along with another protected species, *Argynnis elisa* God., which was also found above Vizzavna. Some collecting was done on the way down through France, and on the return journey a detour was made for *Agrodiaetus dolus vittatus* Oberth. The exhibit illustrated differences between this subspecies and the nominotypical *A. dolus dolus* Hübn., which was found in two localities during the expedition.

REVELL, R. J.—A selection of 24 species of Geometridae collected in Sierra Leone, West Africa, 1967–69: *Victoria immunifera* Prout, *V. pulveriplaga* Warren, *V. peromata* Warr. and *Victoria* sp. near *V. gordonii* Prout; *Archichlora viridimacula* Warr. and *A. marginata* Warr.; *Bathycolpodes subfuscata* Warr.; *Hypocoela subfulva* Warr.; *Somatina chalyboeta* Walk., *S. figurata* Warr., *S. irregularis* Warr. and *S. punctulata* Warr.; *Melinoessa perlimbata* Gn., *M. palumbata* Warr. and *M. fulvescens* Prout; *Antibolyodes dentilinea* Warr.; *Sphingomima cinereo-marginata* Holland; *Gongopteryx fasciata* Holland; *Plegapteryx anomalous* H.-S.; *Semiothisa plutoerpsis* Herbulot, *S. punctiversa* Warr., *S. trigonoleuca* Herbulot, *S. fulvisparsa* Warr. and *S. streniata* Gn.

WARING, P. A., SPALDING, A. & COLLINS, G.—A display of photographs and specimens illustrating the objectives and results of the three-man BENHS expedition to Belize, Central America, 19.i–16.ii.1996. Most of the hawkmoths (Sphingidae) shown came to light traps and most of the large Noctuidae were recorded at bait-

traps. Both types of trap were operated within forest and in adjacent cleared areas as part of a project to compare the moth and butterfly faunas of the two contrasting habitats. A more detailed account is given in the *British Journal of Entomology and Natural History* 9(4). Below, the following site codes are used: T=Tamandua, St Margaret's, in moist forest edge off the Hummingbird Highway in the foothills of the Mayan Mountains in central Belize. R=Rio Bravo Research Station, Programme for Belize, in moist forest in northern Belize. L=Lubantum, Fallen Stones Butterfly Ranch, in rainforest edge near Punta Gorda, southern Belize. S=John Spang's camp, in mangrove swamp near Punta Gorda.

Sphingidae: *Cocytius duponcheli* Poey (R); *Manduca sexta* L. (T); *Adhemarius ypsilon* Roths. & Jord. (R); *A. gannascus* Stoll (R, L); *Protambulyx strigilis* L. (L, S); *Isognathus rimosa* Grote (R); *Pachylia ficus* L. (R); *Madoryx oicles* Cram. (R); *Callionima falcifera* Gehlen (T, R, L); *Xylophanes pluto* F. (T, S); *X. anubus* Cramer (L); *X. chiron nechus* Cramer (L); *X. titana* Druce (L); *X. terse* Drury; *X. ibya* Druce (R); *Aleuron chloroptera* Boisid. (R).

Noctuidae: mainly taken at T, at bait traps. Catocalinae: *Ramphia albizona* Latreille. Ophiderinae: *Ascalapha odorata* L.; *Thysania zenobia* Cramer; *Letis buteo* Gn.; *L. mycerina* Cramer; *L. magna* Gmelin; *L. herilia* Stoll; *L. hypnois* Hübn.; *Cyclopis caecutiens* Hübn.; *Hemeroblemma hampsoni* Feige; *Latebraria amphipyroides* Gn.

WINOKUR, L.—An exhibit illustrating some observations made on the Grecian copper butterfly, *Heodes ottomannus* Lef., bred in southern England. Adults of the spring brood were taken by Mr B. Worthy at Kalavryta on Mt Chelmos, Greece, in April 1995, and produced an F<sub>1</sub> generation.

(1) Seven pupae were obtained and kept indoors. Two of the five summer-brood females (upper-and underside, 7.vii.1995) were exhibited. The only male to emerge achieved two pairings outdoors over potted sorrel (*Rumex*) under netting, proving that males will mate more than once. The butterflies were fed on 10% honey solution. One female was lost to a spider; the other laid F<sub>2</sub>. Larval foodplant was supplemented with cut dock. Care of the stock was shared between the exhibitor and Mr N. Fletcher, London. (2) Over 70 'late summer' adults emerged between 31.viii and 5.x.1995. Such a third brood is rare even in Greece (the mountains are cooler) and was probably brought about by the sustained hot weather in Britain; normally this generation would overwinter as larvae. The emergence of males preceded that of the females by about a week, giving them time to reach sexual maturity and to establish territories, and ensuring they would encounter virgin females in the wild. The first two and last two of each sex to emerge were exhibited, showing the difference in upperside pattern between the sexes but similarity of the undersides. It was suggested that this was due to the need for camouflage while roosting (bird predation on related species suggests that *H. ottomannus* might be palatable) combined with different visual courtship signals. The less vivid upperside of the female may also render her less conspicuous when ovipositing. The last to emerge were distinctly smaller than the earlier ones. Eight pairings were obtained (two per sorrel plant) within raised clear polythene-covered frames, to maintain warmth and deter damp. (3) Of the resulting broods, one lot of larvae was brought indoors and pupated in January–February 1996. The pupae were kept at 2–9 °C until 31.iii., to prevent premature emergence of the spring brood. Four of the resulting imagines were exhibited, including a male (11.iv.96) and two females (14.iv.) with extensive upperside blacking and extensive reduction in underside spotting. Hindwing 'tails' were smaller and undersides greyer than in the yellowish summer broods, illustrating seasonal variation. The fourth, a typical female (14.iv.) lived 42 days and yielded over

100 eggs which were, however, infertile. A second lot of larvae completed the life cycle outdoors and emerged in late April–May. They hid in dense foliage at a time when cool, dull weather inhibited activity, so that the emergence was noticed only after the chance to obtain further pairings had been lost. The experiment showed that the species can be bred outdoors in England, given added protection during winter.

## DIPTERA

A wide selection of flies was exhibited, although the Syrphidae and “larger Brachycera” were as usual to the fore. The latter included one of the two species new to Britain exhibited, i.e. the asilid *Leptarthrus vitripennis* (Mg.) exhibited by Roger Hawkins. This species has evidently been overlooked here previously as Roger found one older specimen misidentified under *L. brevirostris* (Mg.) in The Natural History Museum, London, collections; it is probably more easily recognized as different in the male as it lacks the slender hind metatarsus. The other addition was a tachinid, *Clytiomya continua* (Panzer), shown by Colin Plant; this was formerly a reputed British species, but thought to have been wrongly recorded by van Emden and omitted altogether by Belshaw. The number of exhibits was on a par with last year, compared with the high point in 1994 and was not obviously affected by the coincidence of the Exhibition with the annual dipterists’ meeting, although some dipterists who do not usually attend were able to spend part of the day at the Exhibition.

ALEXANDER, K. N. A., & FOSTER, A. P.—A selection of the more interesting flies found in 1996 by the National Trust Biological Survey: *Oxycera rara* (Scop.) (Stratiomyidae), Long Mynd, Salop., 31.vii; *Choerades marginatus* (L.) (Asilidae), Dudmaston, Salop., 26.vii; *Microdon mutabilis* (L.) (Syrphidae), Hale Purlieu, S.Hants, 18.vi; *Myopa buccata* (L.) (Conopidae), Kenidjack, W. Corn. 13.v; *Zodion notatum* Mg. (Conopidae), Walcot Park, Salop. 29.vii.

GODFREY, A.—Mostly specimens reared in 1995: *Dictenidia bimaculata* (L.) (Tipulidae), ex wood debris, Grimsthorpe Park, Lincs, collected 10.vi, emerged 11.vii; *Ptychoptera albinana* (F.) (Ptychopteridae), ex water-filled tree cavities in buttress roots of beech, Bretton Park, Barnsley, S. Yorks, collected 26.iii, emerged 24.iv; *Mycetobia pallipes* Mg. (Mycetobiidae), ex rot hole debris, Calke Abbey, Derbys., emerged 30.v; *Ptiolina nigra* Staeger in Zetta (Rhagionidae), ex moss from base of an old oak, Chatsworth Park, Derbys., collected 24.iii, emerged 5.vi; *Euthyneura halidayi* Collin (Hybotidae), ex rot hole, Hugset Wood, Barnsley, S. Yorks, collected 26.iii, emerged 18.iv; *Platypalpus parvicauda* (Collin) (Hybotidae), ex rot hole, Hugset Wood, Barnsley, S. Yorks, collected 26.iii, emerged 2.v; *Drapetis arcuata* Loew (Hybotidae), ex sappy wood mould from cavity in horse chestnut (*Aesculus*), Grimsthorpe Park, Lincs, collected 10.vi, emerged 10.vii; *Systemus pallipes* (von Roser) (Dolichopodidae), ex rot hole, Calke Abbey, Derbys., collected 8.v, emerged 31.v; *S. leucurus* Loew (Dolichopodidae), ex sappy wood mould from cavity in horse chestnut (*Aesculus*), Grimsthorpe Park, Lincs, collected 10.vi, emerged 17.vii; *Microsania pectipennis* (Mg.) (Platypodidae), from bonfire smoke, Culzean Country Park, Ayrshire, 4.vii.1995; *Drosophila busckii* Coq. (Drosophilidae), ex rot hole material, Calke Abbey, Derbys., collected 8.v, emerged 30.v; *Lipara rufitarsis* Loew (Chloropidae), ex galls on *Phragmites australis*, Chippenham Fen, Cambs, collected 3.ii, emerged 1.v; *Stenomicrobia delicata* (Collin) (Stenomicrobiidae), ex *Carex paniculata* tussocks, Amberley Wild Brooks, Sussex, 26.ix; *Paykullia maculata* (Fall.) (Rhinophoridae); *Admontia seria* (Mg.) (Tachinidae), ex oak log, Chatsworth Park,



Derbys., collected 24.iii, emerged 4.v; *Phaonia cincta* (Zett.) (Muscidae), ex sappy wood mould from cavity in horse chestnut (*Aesculus*), Grimsthorpe Park, Lines, collected 10.vi, emerged 17–20.vii; *P. exoleta* (Mg.) (Muscidae), ex rot hole debris in beech, Hagnaby, Spilsby, Lines, collected 1.vi, emerged 29.vi; *P. canescens* Stein (Muscidae), reared from under beech bark, Dunham Massey Park, Gtr Manchester, collected 2.iv, emerged 1.v.

HALSTEAD, A. J.—Some local flies found in 1996: *Solva marginata* (Mg.) (Xylomyiidae), on sycamore (*Acer pseudoplatanus*) leaf, White Rose Lane L.N.R., Woking, Surrey, 22.vi; *Brachyopa insensilis* Collin (Syrphidae), on sap run on horse chestnut, RHS Garden, Wisley, Surrey, 1/1.vi; *Noeta pupillata* (Fall.) (Tephritidae), swept from roadside, near Thorne Colliery, Yorks, 15.vii; *Trypeta immaculata* (Macq.) (Tephritidae), Raincliffe Wood, Yorks, 18.vii; *Megamerina dolium* (F.) (Megamerinidae), Whitmoor Common, Surrey, 23.vi; *Colobaea bifasciella* (Fall.) (Sciomyzidae), Rossie Moor, near Montrose, Angus, 15.vii; *Ochthera mantis* (De Geer) (Ephydriidae), pond margin, Kindrogan F.S.C., near Enochdhu, Perthshire, 8.viii.

HAWKINS, R. D.—Some Syrphidae and Asilidae recorded in 1996: (a) Asilidae: *Leptarthrus vitripennis* (Mg.), new to Britain, beaten from young birch (*Betula*) on south-facing chalk grassland invaded by scrub at Riddlesdown, Surrey, 1.vii (Plate 1, Fig. 13); the other previously known British species, *L. brevirostris* (Mg.), found at the same site on 16.vi.1995 and at Kenley Common on 6.vi.1996. (b) Syrphidae: *Chrysotoxum verralli* Collin, Kenley Common, Surrey, 10.vii; *Epistrophe melanostoma* (Zett.), West Wickham Common, W. Kent, 9.v, at dandelion (*Taraxacum*) flowers; *Meligramma euchromum* (Kowarz), Riddlesdown, Surrey, 7.v, and West Wickham Common, 20.v, at flowers of *Angelica sylvestris*; *Platycheirus ambiguus* (Fall.), Riddlesdown, 7.v, and Farthing Downs, 3.v, beaten from sloe (*Prunus spinosa*); *Rhingia rostrata* (L.), Riddlesdown, 13.vi, in woodland; *Xylota xanthocnemis* Collin, Spring Park, W. Kent, 16.vii, in woodland.

HODGE, P. J.—Five species of Diptera found in 1996: *Sciapus contristans* (Wied.) (Dolichopodidae), Stodmarsh Turf Fields, E. Kent, 26.vii; *Callicera aurata* (Rossi) (Syrphidae), Mickleham, Surrey, 13.vii, one female at base of old lime tree (*Tilia*); *Megamerina dolium* (F.) (Megamerinidae), Naphill Common, Bucks, 5.viii, several swept off low vegetation in forest glade; *Cistogaster globosa* (F.) (Tachinidae), Oakhanger, N. Hants, 15.viii, one swept from sandy field; *Subelytia rotundiventris* (Fall.) (Tachinidae), Mickleham, Surrey, on umbel, no date given.

JONES, R. A.—A selection of flies from various South London sites, found in 1995 and 1996: *Solva marginata* (Mg.) (Xylomyiidae), Beckenham Place Park, Kent, 10.viii.95, on wing at woodland edge; *Odontomyia tigrina* (F.) (Stratiomyidae), Ruxley Gravel Pits, Darenth, Kent, 17.vi.96, on lakeside vegetation; *Criorhina floccosa* (Mg.) (Syrphidae), Dacres Wood, Lewisham, Kent, 4.vi.96, flying around base of large partly rotten turkey oak (*Quercus cerris*) (*Volucella zonaria* (Poda) and *V. inanis* (L.) were found in the same wood); *Dorycera graminum* (F.) (Ulidiidae), Hither Green N.R., Kent, 6.vi.96, swept from rough grassland (of only nine recorded sites since 1960, two are in the neighbouring Bromley area of Kent); *Merzomyia westermanni* (Mg.) (formerly included in *Ictericia*) (Tephritidae), Hither Green N.R., Kent, many swept from ragwort (*Senecio* sp.), 22.viii.96; *Noeta pupillata* (Fall.) (Tephritidae), Hither Green N.R., 10.vii.96; *Acinia corniculata* (Zett.) (Tephritidae), Tewkesbury Reservoir, Lewisham, Kent, one swept from rough grassland, 30.vii.95, another swept on 10.viii.95 (known from four other British sites, all National Nature Reserves).

PARKER, M.—Various Diptera recorded in 1996: *Symphoromyia immaculata* (Mg.) (Rhagionidae), male and female from long grass at Kipling Cotes chalk pit, Yorks, 16.vii; *Bombylius canescens* Mikan (Bombyliidae), St Gabriel's, Golden Cap Estate, Dorset, 22.vi; *Eriozona syrphoides* (Fall.) (Syrphidae), female at hawthorn (*Crataegus monogyna*), Delcombe Woods, Dorset, 9.vi; *Platycheirus sticticus* (Mg.) (Syrphidae), male from low herbage in woodland ride at Newton Dale, Yorks, 18.vii; *Callicera rufa* Schummel (Syrphidae), reared from larvae in rot hole of Scots Pine (*Pinus sylvestris*), Rothiemurchus Forest, Inverness, larvae 29.v, pupated 19.vi, emerged 18.vii; *Lejogaster tarsata* (Megerle) (= *splendida* (Mg.)) (Syrphidae), pondside vegetation at Farings Reserve, Yorks, 19.vii; *Leopoldius signatus* (Wied.) (Conopidae), male at Fordington Fields, Dorchester, Dorset, 11.ix; *Zodion cinereum* (F.) (Conopidae), male swept from heathland vegetation at Warmwell Heath, Dorset, 27.vii; *Myopa polystigma* Rond. (Conopidae), male at hawthorn, Scrubbity Burrows, Cranbourne Chase, Dorset, 2.vi; *Hypoderma diana* Brauer (Oestridae), female on sandy track at Rothiemurchus Forest, Inverness, 12.vii.

PLANT, C. W. — *Clytiomya continua* (Panzer) (Tachinidae), new to Britain, one male from the disused Alsa Sand Pit, Elsenham, Essex, 13.vi.1996; it was swept over bare gravel in the vicinity of nests of aculeate Hymenoptera, although the fly is a parasite of Heteroptera (family Pentatomidae).

PORTER, D. A.—*Macquartia tenebricosa* (Mg.) (Tachinidae), reared from a *Chrysolina* (Coleoptera, Chrysomelidae) larva found on *Mentha* sp. in a shaded marshy area at Pippingford Park, E. Sussex, 10.ix; both *Chrysolina polita* and *C. menthastri* adults were present in the area but the exuvium associated with the parasite was believed to be that of *C. menthastri*.

WASS, A.—*Pipizella maculipennis* (Mg.) (Syrphidae), a female swept from heathland vegetation at Warmwell Heath, Dorset, 16.vii, a new record for Dorset; attention was drawn to the diagnostic characters, an obvious wing shade and long antennae (Plate 1, Fig. 12).

## COLEOPTERA

New county records are indicated with an asterisk (\*) unless otherwise stated.

ALEXANDER, K. N. A.—*Diaperis boleti* (L.) (Tenebrionidae), the Sandlings district, East Suffolk, 19–20.x.1996, in brackets of birch polypore *Piptoporus betulinus* at four localities.

ALEXANDER, K. N. A. & FOSTER, A. P.—A selection of the more interesting beetles found during the work of the National Trust's Biological Survey in 1996. *Hydroporus ferrugineus* Stephens (Dytiscidae), Long Mynd, Salop., 31.vii.1996. *Hydroporus longulus* Mulsant (Dytiscidae), Long Mynd, Salop. 29.vii.1996; *Paederus caligatus* Erichson (Staphylinidae), Hale Purlieu, South Hampshire, 18.vi.1996; *Prionocyphon serricornis* (Müller) (Scirtidae), Dudmaston Park, Salop., 5.viii.1996; *Malthinus frontalis* (Marsham) (Cantharidae), Dudmaston Park, Salop., 5.vii.1996; *Drilus flavescens* (Fourcroy) (Drilidae), Saddlescombe, West Sussex, vi.1996, Blackcap, East Sussex, vi.1996, and Hinton Ampner, North Hampshire, vi.1996; *Epuraea distincta* (Grimmer) (Nitidulidae), South Hole, North Devon, 22.v.1996, common in brackets of *Daedaleopsis confragosa*; *Stethorus punctillum* (Weise) (Coccinellidae), Long Mynd, Salop., 23.vii.1996, from western gorse *Ulex gallii*; *Aderus oculatus* (Paykull) (Aderidae), Dudmaston Park, Salop., 5.viii.1996; *Abdera flexuosa* (Paykull) (Melandryidae), Torver Beck, Cumbria, 9.vii.1996, from brackets of *Inonotus*

*radiatus*; *Tomoxia bucephala* Costa (Mordellidae), Morden Hall Park, Surrey, 18.vi.1996, and Northchurch Common, Herts, 19.vii.1996; *\*Ischnomera cinerascens* (Pandelle) (Oedemeridae), Farnborough Hall, Warks, 7.vi.1996; *\*Calomicrus circumfusus* (Marsham) (Chrysomelidae), Long Mynd, Salop., 31.vii.1996, from western gorse *Ulex gallii*; *Dieckmanniellus (Nanophyes) gracilis* (Redtenbacher) (Apionidae), Hale Purlieu, South Hampshire, 16.vi.1996; *Cathormiocerus attaphilus* Brisout and *C. myrmecophilus* (Seidlitz) (Curculionidae), Scobbiscombe, South Devon, 20/21.v.1996; *Cossonus parallelepipedus* (Herbst) (Curculionidae), Morden Hall Park, Surrey, 18.vi.1996, under poplar bark; *Rhynchaenus iota* (F.) (Curculionidae), Hale Purlieu, South Hampshire, 18.vi.1996; *\*Miarus micros* (Germar) (Curculionidae), Scobbiscombe, South Devon, 20.v.1996, and Tregenna, East Corn., 17.v.1996; *Sibinia sodalis* Germar (Curculionidae), Kenidjack, Corn., 13.v.1996.

ALLEN, A. J. W.—Some beetles collected in 1996. *Atheta (Phyconoma) immigrans* Easton (Staphylinidae), Isle of Grain, West Kent, 8.viii.1996, under seaweed; *Eulagius flicornis* (Reitter) (Mycetophagidae), Reading, Berkshire, 26.viii.1996, beaten from dead oak and beech branches; *\*Anthicus tobias* Marseul (Anthicidae), West Parley, Dorset, 25.x.1996, in manure heap; *Psylliodes cucullata* (Illiger), near Aberdare, Glamorgan, 5.x.1996, several swept; *Tachyerges decoratus* (Germar) (Curculionidae), Leckford, N. Hants., 11.iv.1996, on Purple Willow *Salix purpurea*.

BRATTON, J.—*Cercyon alpinus* Vogt (Hydrophilidae), Oakhall Coppice, West Glos, 3.vi.1996, in horse dung in woodland; *Aphodius porcus* (F.) (Scarabaeidae), Burghley Park, Northants, 5.x.1996, on the wing in sheep pasture; *Aphodius zenkeri* Germar (Scarabaeidae), Castor Hanglands NNR, Northants, 22.ix.1996, in deer dung in woodland; *Telmatophilus brevicollis* Aubé (Cryptophagidae), Baston Fen, South Lincs, 20.vii.1996, on flowers of branched bur-reed *Sparganium erectum*; *Tomoxia bucephala* Costa (Mordellidae), Wood Walton Fen NNR, Hunts, 21.vii.1996; *Ischnomera cinerascens* (Pandelle) (Oedemeridae), Barnack Hills and Holes NNR, Northants, 15.vi.1996, on purging buckthorn flowers.

COLLIER, M. J.—Some notable beetles recorded from Norfolk between 1994 and 1996, including four new county records (\*). *\*Amara montivaga* Sturm (Carabidae), Cranwich Heath, 7–28.vi.1994, pitfall trap in clear-felled pine plantation (also on 15.v.–7.vi.1994 and 28.vii.1994); *\*Hydnobius latifrons* (Curtis) (Leiodidae), Thetford, 2.vii.1994, evening sweeping on Breckland heath; *Leiodes rugosa* Stephens (Leiodidae), Thetford, 16.ix.–16.x.1994, in pitfall trap on Breckland heath; *Carpelimus lindrothi* Palm (Staphylinidae), Thomson Common, 26.iii.1994, sieving sedge tussock litter; *Oxytelus fulvipes* Erichson (Staphylinidae), Wheatfen, Surlingham, 20.xi.1994, in litter at base of sedge-tussock; *Tachyusa coarctata* Erichson (Staphylinidae), Wheatfen, Surlingham, 15.ix.1994, running on wet mud on dyke bank; *Agrius sinuatus* (Olivier) (Buprestidae), Stanford PTA, 26.viii.1996, beating isolated hawthorn bush; *Lycoperdina succincta* (L.) (Endomychidae), Stanford PTA, 16.ix.1994, in small puffball fungus; *Anisoxya fuscula* (Illiger) (Melandryidae), Sisland, 15.ix.1996, beating young ash on edge of mixed woodland; *\*Abdera biflexuosa* (Curtis) (Melandryidae), Stanford PTA, 19.vi.1995, beating low branches of old oak; *Abdera triguttata* (Gyll.) (Melandryidae), Thetford, 6.vii.1994, beating dead branches of fallen conifer; *Anthicus bimaculatus* (Illiger) (Anthicidae), Holkham, 9.vi.1996, running on strand-line driftwood at top of beach; *\*Galeruca interrupta* auct. Brit. not Illiger (Chrysomelidae), Norfolk Broads, 13.x.1996 (also on 1–22.ix.1996), associated with creeping thistle *Cirsium vulgare*, last recorded from Britain in 1919; *Psylliodes sophiae* Heikertinger (Chrysomelidae), Stanford PTA, 12.vii.1996 (also on 20–28.vii.1996 & 16.viii.1996), on young flaxweed *Sisymbrium sophia*; *Rhynchites longiceps* Thomson (Attelabidae), Stanford PTA, 16.vi.1996,



beating saw; *Orthochaetes setiger* (Beck) (Curculionidae), Cranwich Heath, 14.viii.–16.ix.1994, pitfall trap in clear-felled pine plantation; *Neophytobius muricatus* (Brisout) (Curculionidae), Thomson Common, 21.x.1995, grubbing in dried-out pond; *Pityogenes trepanatus* (Nördlinger) (Scolytidae), Stanford PTA, 19.vi.1995, general sweeping.

COPESTAKE, D. R.—Some beetles taken in 1996. *Harpalus froelichi* Sturm (Carabidae), near Lakenheath, West Suffolk, 31.vii.1996, at plant roots in a private field; *Masoreus wetterhali* (Gyll.) (Carabidae), near Lakenheath, West Suffolk, 31.vii.1996, at plant roots in a private field; *Staphylinus ophthalmicus* Scopoli (Staphylinidae), Thetford Heath NNR, West Suffolk, 31.vii.1996, in pit-fall trap; *Procræus tibialis* (Boisd. & Lac.) (Elateridae), High Standing Hill, Windsor Forest, Berks., 5.vi.1996, on hawthorn *Crataegus* blossom; *Melasis buprestoides* (L.) (Eucnemidae), High Standing Hill, Windsor Forest, Berkshire, 5.vi.1996, flying by dead beech; *Lycoperdina succincta* (L.) [with *Lycoperdina bovis* (F.) for comparison] (Endomychidae), near Lakenheath, West Suffolk, 17.ix.1996, pit-fall trap in a private field; *Ischnomera cinerascens* Pandelle (Oedemeridae), Wychwood Forest, Oxon, 28.v.1996, on flowers; *Leptura scutellata* F. (Cerambycidae), High Standing Hill, Windsor Forest, Berks., 27.vi.1996, flying across clearing; *Judolia ceambyciformis* (Schrank) (Cerambycidae), High Standing Hill, Windsor Forest, Berks., 27.vi.1996, on hogweed *Heracleum umbel*; *Phytoecia cylindrica* (L.) (Cerambycidae), Tubney, Oxon, 14.v.1996, on flowers; *Dieckmanniellus* (*Nanodes*) *gracilis* (Redtenbacher) (Apionidae), pond near Brockenhurst, South Hampshire, 17.vii.1996; *Cionus longicollis* Brisout (Curculionidae), Maidscross Hill, Lakenheath, West Suffolk, 31.vii.1996; *Glocianus pilosellus* (Gyll.) (Curculionidae), Tubney, Oxon, 14.v.1996, grubbing near lesser dandelion *Taraxacum laevigatum*.

GODFREY, A.—Two species of Coleoptera from south-west Scotland.

(1) *Procas granulicollis* Walton (Curculionidae), Loch Wood, Beattock, Dumfriesshire, 10.vi.1996; Kirkconnel Flow, Dumf., 11.vi.1996; Lochside Plantation, Kistle Loch, Lochmaben, Dumf., 12.vi.1996; Castramon Wood, Gatehouse of Fleet, Kirk., 13.vi.1996, all in open areas of birch *Betula* woodland by searching climbing corydalis *Corydalis claviculata* for signs of feeding damage.

(2) *Cryptocephalus sexpunctatus* (L.) (Chrysomelidae), Kirkconnel Flow, Dumf., 11.vi.1996, one on a grass stem amongst bracken and climbing corydalis *Corydalis claviculata*.

HACKETT, D. S.—(1) The Stag Beetle *Lucanus cervus* (L.) (Lucanidae), a large larva and two adults (with the Lesser Stag Beetle *Dorcus parallelipedus* (L.) (Lucanidae) for comparison), together with an appeal for recent records in the London area.

(2) The Musk Beetle *Aromia moschata* (L.) (Cerambycidae), Tottenham, Middx, TQ344888, bred from a 5 cm diameter branch of Goat Willow *Salix caprea* agg. on a piece of railway land beside the River Lee, the larval boring was discovered in v.1995 and a section of the branch was removed in iv.1996, the adult emerged on 4.vi.1996.

HALSTEAD, A. J.—Some local Coleoptera taken in 1996. *Gyrinus caspius* (Ménétriés) (Gyrinidae), Lunan Bay, north of Montrose, Forfar, 7.viii.1996, at M.V. light; *Agrilus viridis* (L.) (Buprestidae), Whitmoor Common, Surrey, 23.vi.1996, swept off sawlog *Salix* sp.; *Podabrus alpinus* (Paykull) (Cantharidae), East Burnham Common, Berks., 8.vi.1996, swept; *Orsodacne cerasi* (L.) (Chrysomelidae), Scarwell Wood, Forge Valley, near West Airton, N.E.Yorks, 18.vii.1996, on hogweed *Heracleum umbel*; *Zeugophora subspinosa* (F.) (Chrysomelidae), Whitmoor Common, Surrey, 2.vi.1996, swept off aspen *Populus tremula*; *Byctiscus betulae* (L.)

(Attelabidae). Whitmoor Common, Surrey, 2.vi.1996, swept off aspen *Populus tremula*; *Grypus equiseti* (F.) (Curculionidae), Scarwell Wood, Forge Valley, near West Ayrton, N.E. Yorks, 18.vii.1996, swept.

HAWKINS, R. D.—Coleoptera recorded during 1996.

(1) One species from England. *Opilo mollis* (L.) (Cleridae), Spring Park, West Kent, 17.vi.1996, on trunk of oak *Quercus* at night.

(2) Three species from northern France. *Trichodes alvearius* (F.) (Cleridae), Bouquelon near Pont-Audemer, 31.v.1996, on composite flowers; *Oberea oculata* (L.) (Cerambycidae), south of Calais, 3.ix.1996, on willow *Salix* in marshland; *Agelastica ahni* (L.) (Chrysomelidae), Marais Vernier near Pont-Audemer, 31.v.1996, on alder *Alnus*.

HENDERSON, M.—Some typical beetles from Braunton Burrows, North Devon. *Aegialia arenaria* (F.) (Scarabaeidae), near Dog Walk, 22.ix.1996, trapped in sand dune; *Agrypnus murinus* (L.) (Elateridae), 4.vi.1988, swept; *Melaninon tibialis* (F.) (Tenebrionidae), 4.vi.1988; *Isonira murina* (L.) (Tenebrionidae), 4.vi.1988; *Oedemera nobilis* (Scop.) (Oedemeridae), 4.vi.1988; *Cryptocephalus aureolus* Suff. (Chrysomelidae), 4.vi.1988; *Chrysolina banksi* (F.) (Chrysomelidae), on coastal path near Westward Ho!, 5.vi.1988; *Chrysolina brunsvicensis* (Grav.) (Chrysomelidae), Broad-sands Car Park, 25.ix.1996, crawling on ground.

HOARE, D. I. B.—Twenty-one species of Coleoptera, mostly collected in 1994 and 1995. *Blethisa multipunctata* (L.) (Carabidae), Coul Links, Embo, E.Suther., 24.v.1995, on mud; *Amara spreta* Dej. (Carabidae), Seaton Carew, Durham, 28.v.1995, on sand dunes; *Harpalus ardosiacus* (Luts.) (Carabidae), Treyarnon, West Corn., 10.vii.1995, on cliff-top path; *Odacantha melanura* (L.) (Carabidae), Lower Test Marshes, S. Hants, 7.v.1995, swept; *Hygrobia hermanni* (F.) (Hygrobiidae), East Prawle, South Devon, 17.x.1995, in pond; *Gyrinus urinator* Ill. (Gyrinidae), Treyarnon, West Corn., 16.vii.1995, in slow-running stream; *Paederus fuscipes* Curtis (Staphylinidae), Lower Test Marshes, S. Hants., 7.v.1995, swept; *Tachinus elongatus* Gyll. (Staphylinidae), Schiehallion, Mid Perth, 25.v.1994, under stone; *Podabrus alpinus* (Paykull) (Cantharidae), Selborne, N. Hants, 5.vi.1994, on nettles *Urtica*; *Dermestes maculatus* Deg. (Dermestidae), Holmesley, S. Hants, 6.viii.1994, in dead ferret; *Anobiium inexpectatum* Lohse (Anobiidae), Emer Bog, S. Hants, 18.vi.1995, beaten off oak *Quercus*; *Dendrophagus crenatus* (Payk.) (Cucujidae), Glenmore, Easternness, vi.1993, under spruce bark; *Opatrum sabulosum* (L.) (Tenebrionidae), Pentire Head, East Corn, 13.vii.1994, under stone; *Bolitophagus reticulatus* (L.) (Tenebrionidae), by Loch Rannoch, Mid Perth, 19.viii.1994, in *Fomes* on birch; *Agapanthia villosoviridescens* (Deg.) (Cerambycidae), Brackley, Northants, 30.v.1994, on *Heracleum*; *Atelabus nitens* (Scop.) (Attelabidae), Hale Purlieu, S. Hants, 14.v.1994, on beet; *Otiorhynchus nodosus* (Müll.) (Curculionidae), Glen Feshie, Easternness, 21.v.1995, on forest track; *Otiorhynchus scaber* (L.) (Curculionidae), Glen Feshie, Easternness, 24.v.1993, swept; *Magdalis carbonaria* (L.) (Curculionidae), Selborne, North Hampshire, 31.v.1995, on brushwood; *Mecinus circulator* (Marsh.) (Curculionidae), Portland, Dorset, 12.vi.1994, on stone; *\*Pityogenes trepandatus* (Nörd.) (Scolytidae), Winchester, S. Hants, 5.ix.1991, at m.v.light.

HODGE, P. J.—Nineteen species of Coleoptera, including one which has not previously been recorded in Britain. *Laccophilus ponticus* Westhoff (Dytiscidae), Lewes Brooks, East Sussex, TQ4009, 16.vii.1996, one male in the Celery Sewer; *Stenichnus pusillus* (Müller & Kunze) (Seydmaenidae), The Coombe, Lewes, E. Sussex, TQ4310, 5.v.1996, several in moss and at roots of low plants; *\*Alevonota aurantiaca* Fauvel (Staphylinidae), Mount Caburn N.N.R., Glynde, East Sussex,

TQ4408, 29.v.1996, one at roots of low plants; *\*Elodes tricuspidis* Nyholm (Scirtidae), Parham Park, West Sussex, TQ0514, 6.vi.1996, on vegetation overhanging stream; *Antherophagus canescens* Grouvelle (Cryptophagidae), Matley Bog, New Forest, S. Hants, SU3307, 3.viii.1996, one swept; *\*Mordellistena imitatrix* Allen (Mordellidae), Oakhanger, N. Hants, SU7636, 15.viii.1996 and West Lavington, West Sussex, SU9020, several swept off Mugwort *Artemisia vulgaris*; *\*Mordellistena parvuloides* Ermisch (Mordellidae), near Bexhill, East Sussex, TQ7609, 30.vii.1996, one female swept off Creeping Thistle *Cirsium arvense*; *\*Bruchidius varius* (Olivier) (Bruchidae), Ditchling Beacon, East Sussex, TQ3313, 9.x.1994, one female swept, and Novington Lane, Plumpton, East Sussex, TQ3713, five females on 11.vii.1996 and two males, one female on 18.ix.1996, the first records for the British Isles; *\*Cassida denticollis* Suffrian (Chrysomelidae), A27 road verge near Falmer, East Sussex, TQ3709, 27.viii.1996, one at roots of Yarrow *Achillea millefolium*; *Cassida prasina* Ill. (Chrysomelidae), A27 road verge near Falmer, East Sussex, TQ3709, 27.viii.1996, one at roots of Yarrow *Achillea millefolium*; *\*Bruchela rufipes* (Ol.) (Anthribidae), Mickleham, Surrey, TQ1753, 8.vii.1996, several on Wild Mignonette *Reseda lutea*; *\*Rhynchites longiceps* Thoms. (Atelabidae), Powdermill Reservoir near Brede, East Sussex, TQ7920, 21.viii.1996, female on willow *Salix*; *Otiorhynchus porcatus* (Herbst) (Curculionidae), Lewes, East Sussex, TQ4009, 1.v.1996, one at roots of Cowslip *Primula veris*; *\*Lixus scabricollis* Boh. (Curculionidae), Telscombe Cliffs, East Sussex, 25.ix.1996, at roots of sea beet *Beta vulgaris* on cliff top; *Hypera suspiciosa* (Herbst) (Curculionidae), A267 road verge near Hellingly, East Sussex, TQ5711, 17.vii.1996, male on Bird's-foot Trefoil *Lotus corniculatus*; *Trichosiromus horridus* (Panz.) (Curculionidae), Moultsford Downs, Berkshire, SU5682, 10.vii.1996, plentiful on Musk Thistle *Carduus nutans*; *Hadroplontus trimaculatus* (F.) (Curculionidae), Moultsford Downs, Berks., SU5682, 10.vii.1996, plentiful on Musk Thistle *Carduus nutans*; *Smicronyx reichi* (Gyll.) (Curculionidae), Buckle By-pass, Seaford, East Sussex, TQ4700, 9.v.1996, several at roots of low plants; *\*Isochnus populicola* (Silfverberg) (Curculionidae), near Rise Farm, Lewes, East Sussex, TQ4108, 16.vii.1996, several on Crack Willow *Salix fragilis*.

JONES, R. A.—Some notable and interesting beetles taken in various south London sites in recent years. *Pterostichus macer* (Marsh.) (Carabidae), Nunhead, Surrey, 12.viii.1996, crawling in a very small front garden; *Trichius zonatus* Germar (Scarabaeidae), Dacres Wood, Lewisham, West Kent, 15.vii.1996, on the wing around bramble flowers near large rotten beech, last recorded in Britain in 1959; *Agrilus angustulus* (Illiger) (Buprestidae), Hither Green NR, West Kent, 18.vi.1996 and 10.vii.1996, by sweeping; *Agrilus laticornis* (Illiger) (Buprestidae), Beckenham Place Park, Bromley, West Kent, 28.vii.1995, beating oak; *Malachius marginellus* (Olivier) (Melyridae), Chinbrook Orchard, Grove Park, Bromley, West Kent, 27.vi.1996, sweeping; *Aspidiphorus orbiculatus* (Gyll.) (Sphindidae), Beckenham Place Park, Bromley, West Kent, 19.vi.1995, sweeping; *Helops caeruleus* (L.) (Tenebrionidae), Blackheath Hill, West Kent, 3.x.1995, under bark of sycamore branch; *Conopalpus testaceus* (Olivier) (Melandryidae), Beckenham Place Park, Bromley, West Kent, 27.vii.1995, beating dead oak branch; *Orchesia micans* (Panzer) (Melandryidae), Beckenham Place Park, Bromley, West Kent, 19 & 29.vi.1995, in *Ganoderma* fungus on large turkey oak; *Cicones undatus* Guér.-Mén. (Colydiidae), Honor Oak Park, Surrey, 25.viii.1995, under sycamore bark infected with sooty bark disease (also found in several other localities in the south London area, sometimes in abundance); *Synchita separanda* (Reitt.) (Colydiidae), Honor Oak Park, Surrey, 25.viii.1995, several under sycamore bark infected with sooty bark disease (also found under sycamore bark at Dacres Wood, Lewisham,



West Kent, 15.vii.1996). and on horse chestnut at Hither Green NR, West Kent, 27.vi.1996); *Anommatus duodecimstriatus* (Müller, P.W.J.) (Bothrideridae). Dacres Wood, Lewisham, West Kent, 4.vi.1996, under bark on underside of sycamore log infected with sooty bark disease [also found with it were many specimens of *Biphylus lunatus* (F.) (Biphyllidae) and *Diplocoelus fagi* Guér.-Mén. (Biphyllidae)]; *Lilioceris lili* (Scopoli) (Chrysomelidae). Dacres Wood, Lewisham, West Kent, 17.vii.1996, swept from pond-side vegetation; *Chrysolina oricalcia* (Müller, O.F.) (Chrysomelidae). Beckenham Place Park, Bromley, West Kent, 6.vi.1995, swept; *Bruchela rufipes* (Olivier) (Urodontidae), Hither Green NR, West Kent, 10.vii.1996, two swept in rough grassland; *Rhinoncus albicinctus* Gyll. (Curculionidae), Beckenham Place Pond, Bromley, West Kent, 23.v.1995, swept from pond-side vegetation.

LEVEY, B. & PAVETT, P.M.—A selection of uncommon beetles collected at two Welsh parkland sites, during a research programme in collaboration with Countryside Council for Wales. Species marked with an asterisk (\*) are thought to be new to Wales.

(1) Species collected at Dinefwr Deer Park, Llandeilo, Carmarthenshire. *Hadrognathus longipalpis* (Mulsant & Rey) (Staphylinidae), 1.x.1996, on cut end of large felled oak trunk; *Selatosomus bipustulatus* (L.) (Elateridae), 22–31.v.1996, in aerial interception trap in lower canopy of ancient oak; *Dirhagus pygmaeus* (F.) (Eucnemidae), in ground level flight interception trap; *Ptinus subpilosus* Sturm (Ptinidae), 12–27.vi.1996, in ground level flight interception trap; *Phloiophilus edwardsi* Stephens (Phloiophilidae), 20–27.ix.1996, in aerial interception trap in lower canopy of ancient oak; \**Sphindus dubius* (Gyll.) (Sphindidae), 5–27.vi.1996, in ground level flight interception trap; \**Enicmus brevicornis* (Mannerheim) (Lathridiidae), 12–21.vi.1996, in ground level flight interception trap; *Hypulus quercinus* (Quensel) (Melandryidae), 5–12.vi.1996, in aerial interception trap in lower canopy of ancient oak; *Conopalpus testaceus* (Olivier) (Melandryidae), 14.vi.1996, beaten from foliage of ancient oak containing red rot; *Pyrrhidium sanguineum* (L.) (Cerambycidae), 14.iv.1996, teneral adult taken under bark of oak bough resting against tree; \**Xyleborus dispar* (F.) (Scolytidae), 5–12.vi.1996, in aerial interception trap in lower canopy of ancient oak.

(2) Species collected at Llanover Estate, Gwent. \**Triarthron maerkeli* Märkel (Leiodidae), 20–26.vi.1996, in ground level flight interception trap; \**Ptinus sexpunctatus* Panzer (Ptinidae), 13–20.vi.1996, in aerial interception trap in lower canopy of ancient oak; \**Caenoscelis subdeplanata* Brisout (Cryptophagidae), 13–26.vi.1996, in ground level flight interception trap; *Symbiotes latus* Redtenbacher (Endomychidae), 13–20.vi.1996, in aerial interception trap in lower canopy of ancient oak; \**Enicmus rugosus* (Herbst) (Lathridiidae), 6–26.vi.1996, mainly in aerial interception traps, but also by ground level flight interception traps and malaise traps; \**Aderus populneus* (Creutzer) (Aderidae), 12.ix.1996, in artificial birds nest made of hay, placed in a rot hole of beech tree.

LOTT, D. A.—23 species of beetles from Croome Park, Wores., collected in May and June 1996. *Euthicia formicetorum* Reitter (Scydmaenidae), in decaying heartwood of beech; *Stenichnus godarti* (Latreille) (Scydmaenidae), in rotten log; *Xantholinus angularis* Ganglbauer (Staphylinidae), in decaying heartwood of oak; *Euryusa sinuata* Erichson (Staphylinidae), in decaying heartwood and grass in oak; *Aulonothroscus brevicollis* (de Bonvouloir) (Throscidae), beaten from dead oak branches; *Malthodes crassicornis* (Mäklin) (Cantharidae), beaten from dead oak branch; *Globicornis nigripes* (F.) (Dermestidae), on hogweed flower; *Trinodes hirtus* (F.) (Dermestidae), beaten from dead oak branches; *Hadrobregmus denticollis* (Creutzer)

(Anobiidae) beaten from dead branch of field maple; *Opilo mollis* (L.) (Cleridae), beaten from dead oak branches; *Korynetes caeruleus* (Degeer) (Cleridae), beaten from dead oak branches; *Atomaria morio* Kolenati (Cryptophagidae), in grass trap in hollow oak; *Orthoperus nigrescens* Stephens (Corylophidae), beaten from oak and in grass traps; *Enicmus rugosus* (Herbst) (Lathridiidae), beaten from dead oak branch; *Alphitobius diaperinus* (Panzer) (Tenebrionidae), in grass trap at foot of old oak; *Abdera biflexuosa* (Curtis), beaten from oak branches; *Aderus populneus* (Creutzer) (Aderidae), beaten from dead oak branches; *Scaptia testacea* Allen (Scaptiidae), beaten from dead oak branch; *Mesosa nebulosa* (F.) (Cerambycidae) beaten from dead oak branch; *Tropideres sepicola* (F.) (Anthribidae), beaten from dead oak branches; *Anthribus fuscatus* (Forster) (Anthribidae), beaten from oak branches; *Curculio villosus* F. (Curculionidae), beaten from oak branch; *Ernoporus fagi* (F.), beaten from dead oak branch.

McCLENAGHAN, I.—A selection of interesting beetles, many of which were collected using a 120w m.v. light trap fitted with a much smaller container under the lamp. *Lasiotrechus discus* (F.) (Carabidae), Southam, Warks, SP424614, 19.vii.1995, in m.v. light trap; *Bembidion punctulatum* Drapiez (Carabidae), Wellesbourne, Warks, SP25, 6.v.1993, this sand quarry site has now been returned to an agricultural field; *Bembidion femoratum* Sturm (Carabidae), Ryton Wood Pool, Warks, SP372727; *Perigona nigriceps* (Dejean) (Carabidae), Southam, Warks, SP424614, 20.vii.1995, in m.v. light trap; *Leiodes cinnamomea* (Panzer) (Leiodidae), Hidcote, Glos., 24.x.1996, a dead specimen in a fountain, a truffle feeder; *Liocyrta vittata* (Curtis) (Leiodidae), Southam, Warks, SP424614, 27.viii.1995, in m.v. light trap; *Ptenidium punctatum* (Gyll.) (Ptiliidae), Southam, Warks, SP424614, 29.vi.1993 and 5.v.1995, in m.v. light trap; *Ptenidium pusillum* (Gyll.) (Ptiliidae), Southam, Warks, SP424614, 7.v.1993, in m.v. light trap; *Oligella foveolata* (Alibert) (Ptiliidae), Southam, Warks, SP424614, 24.vi.1992, in m.v. light trap; *Oligella intermedia* Besuchet (Ptiliidae), Southam, Warks, SP424614, 27.viii.1991, in m.v. light trap; *Smicrus filicornis* (Fairmaire & Laboulbène) (Ptiliidae), Southam, Warks, SP424614, 28.viii.1995, in m.v. light trap; *Cypha longicornis* (Paykull) (Staphylinidae), Southam, Warks, SP424614, 1.ix.1995, in m.v. light trap; *Phyllopertha horticola* (L.) (Scarabaeidae), Fanore foreshore, the Burren, Co Clare, L21, 1.vi.1995, three melanics and a typical specimen; *Agrypnus murinus* (L.) (Elateridae), Fanore foreshore, the Burren, Co Clare, L21, 1.vi.1995, under a stone on sandy soil and from an ants nest, and Port Ballintrae, Co.Antrim, C94, 22.vi.1988, a new county record; *Lampyrus noctiluca* (L.) (Lampyridae), Edenbridge, Kent TQ4446, 6.vii.1995, in m.v. light trap; *Meligethes exilis* Sturm (Nitidulidae), Fanore foreshore, the Burren, Co Clare, L21, 1.vi.1995; *Henoticus californicus* (Mannerheim) (Cryptophagidae), Southam, Warks, SP424614, 27.vii.1995, in m.v. light trap; *Atomaria fuscata* (Schönherr) (Cryptophagidae), Southam, Warks, SP424614, 21.viii.1995, in m.v. light trap; *Mycetaea hirta* (Marsh.) (Endomychidae), Port Ballintrae, 2.ix.1992, two found dead in a lamp shade in doors, a dry rot feeder; *Endomychus coccineus* (L.) (Endomychidae), Oxford, SP4805, 10.x.1996, a melanic specimen with black head and pronotum taken in honey fungus in a west Oxford city garden, with a typical specimen from Thorndon Park, Brentwood, Essex, TQ69, 16.ix.1979; *Mycetophagus quadripustulatus* (L.) (Mycetophagidae), Southam, Warks, SP424614, 20.vii.1995, in m.v. light trap; *Colydium elongatum* (F.) (Colydiidae), Micheldever Woods, Winchester, N. Hants, SU53, 31.v.1993, under beech bark, an RDB3 species known from a few sites in southern England; *Strangalia quadrifasciata* (L.) (Cerambycidae), Wigton, Gatehouse of Fleet, Kirkcudbright, NX56, 12.v.1996, found emerged from a small roadside stump.

MANN, D. J.—*Tesarius mcclayi* (Cartwright) (Scarabaeidae), near Port Talbot, Glam., SS78, several found on sand dunes in 1995, a species new to the British Isles; *Cassida sanguinosa* Suffrian, North Devon, SS43, many found on Sneezewort *Achillea ptarmica*, previously only recorded from Ireland in the British Isles.

MANN, D. J. & PAVETT, P. M.—15 species of Coleoptera found at Allt-yr-Esgair (also known as Allt House Wood), Brecknockshire, SO1223 during 1996. *Oligota apicata* Erichson (Staphylinidae), in fungi on a dead ash tree and under beech bark, believed to be new to Wales; *Platycis minutus* (F.) (Lycidae), 14.ix.1996, several on dead oak trunks; *Ctesias serra* (F.) (Dermestidae), 15.vi.1996, larvae under hawthorn bark and 22.vi.1996, adult beaten from dead oak branch; *Ptinomorphus imperialis* (L.) (Anobiidae), 22.vi.1996, one beaten from oak branch; *Enicmus brevicornis* (Mannerheim) (Lathridiidae), 14.ix.1996, one under beech bark, believed to be the second Welsh record; *Hypulus quercinus* (Quensel) (Melandryidae), 15.vi.1996, one beaten from hawthorn, believed to be the third Welsh record; *Melandrya caraboides* (L.) (Melandryidae), beaten from dead oak, under fungi on ash and by searching on dead oak and beech at night; *Orchesia minor* Walker (Melandryidae), on several occasions by beating dead hawthorn branches; *Cicones variegatus* (Hellwig) (Colydiidae), 14.ix.1996, one under beech bark, believed to be new to Wales; *Ischnomera cyanea* (F.) (Oedemeridae), 22.vi.1996, two by beating hawthorn blossom; *Oncomera femorata* (F.) (Oedemeridae), 15.vi.1996, one to m.v. light and 22.vi.1996, one by beating dead oak; *Pyrochroa coccinea* (L.) (Pyrochroidae), 22.vi.1996, one by beating oak branches; *Stenostola dubia* (Laicharting) (Cerambycidae), 15.vi.1996, one to m.v. light; *Anaglyptus mysticus* (L.) (Cerambycidae), several by beating hawthorn blossom and on a dead cherry tree; *Magdalis cerasi* (L.) (Curculionidae), 22.vi.1996, two beaten from a dying apple tree, believed to be new to Wales.

MENZIES, I. S.—(1) British *Donacia* (Chrysomelidae) beetles. *Donacia aquatica* (L.), Burton Mill Pond, West Sussex, 14.vi.1991 & 30.v.1994, sweeping *Carex*; *Donacia bicolora* Zschach, Moor's River, Hurn, S. Hants, 29.vi.1994, on *Sparganium erectum* in edge of river, and Thundry Meadows, Elstead, Surrey, 7.viii.1995, on *Sparganium erectum* in River Wey; *Donacia cinerea* Herbst, Virginia Water, Surrey, 16.viii.1990, on *Typha angustifolia*, and Burton Mill Pond, West Sussex, 14.vi.1991, on *Typha latifolia*; *Donacia clavipes* F., Burton Mill Pond, West Sussex, 25.v.1991 & 22.v.1995, on *Typha latifolia*; *Donacia crassipes* F., Burton Mill Pond, West Sussex, 10.vii.1991, on *Nuphar lutea* in lake, and Ober Water, New Forest, S. Hants, 26.vii.1991, on *Nymphaea alba* in stream; *Donacia dentata* Hoppe, Amberley Wild Brooks, West Sussex, 2.viii.1990 & 11.viii.1990, on *Sagittaria sagittifolia*; *Donacia impressa* Paykull, Burton Mill Pond, West Sussex, 25.v.1991, swarming on flowers of *Carex paniculata*; *Donacia marginata* Hoppe, Burton Mill Pond, West Sussex, 14.vi.1991, on *Sparganium erectum*; *Donacia obscura* Gyll., Loch Garten, Easternness, 10.vi.1992, on *Carex* leaves; *Donacia semicuprea* Panzer, Amberley Wild Brooks, West Sussex, 20.vii.1991, on leaves of *Glyceria maxima*; *Donacia simplex* F., Bourne Böttom, Bournemouth, Dorset, 25.v.1991 & 14.vi.1991, on *Sparganium erectum*, and Burton Mill Pond, West Sussex, 10.vii.1991, on *Sparganium erectum*; *Donacia sparganii* Ahrens, Barcombe Mills, East Sussex, 25.viii.1990 & 28.vii.1991, on floating leaves of *Sparganium emersum* in River Ouse flood relief channel; *Donacia thalassina* Germar, Bolder Mere, Wisley, Surrey, 5.vi.1994, swarming on flowers of *Carex acutiformis* at lake margin, and Burton Mill Pond, West Sussex, 8.vi.1995, single example on *Carex*; *Donacia versicolore* (Brahm), Amberley Wild Brooks, West Sussex, 2.viii.1990, on *Potamogeton*; *Donacia vulgaris* Zschach, *Platanus affinis* (Kunze), Burton



Mill Pond, West Sussex, 30.v.1994, on *Carex*, and Thursley Hammer Pond, Surrey, 30.v.1994, on *Carex*; *Plateumaris braccata* (Scopoli), Burton Mill Pond, West Sussex, 28.vi.1991 & 30.v.1994, on *Phragmites australis*; *Plateumaris discolor* (Panzer), Thursley Common, Surrey, 2.vi.1968, and Abernethy Forest, Easternness, 8.vi.1992, on *Carex*; *Plateumaris sericea* (L.), Sapperton Canal, Stroud, Glos, vi.1947, and Thursley Hammer Pond, Surrey, 2.vi.1994, on vegetation at pond margin; *Macrolea appendiculata* (Panzer), Talkin Tarn, Cumberland, 6.vi.1992, amongst submerged leaves of *Myriophyllum alterniflorum*.

(2) Examples of colour change in Chrysomelidae: possibly due to ageing or exposure. *Donacia bicolora* Zschach, Thundry Meadows, Elstead, Surrey, 4.viii.1995: a series of four adults from *Sparganium erectum* beside the River Wey which were of a blue/violet coloration; *Cryptocephalus hypochaeridis* (L.), two specimens off yellow composite flowers from Buckland Hills, Surrey, 5.vi.1989, both with normal metallic-green coloration, three specimens from Chipstead, Surrey, 29.viii.1955, and one specimen from Howell Hill, Cheam, Surrey, 10.ix.1996, all off yellow composite flowers, showing a marked smoky-black discoloration; *Cryptocephalus parvulus* Müller, O. F., three specimens from Lavington Common, West Sussex, 15.vii.1996, of the usual metallic-blue coloration, three specimens beaten off birch at Wisley Common, 5.ix.1996, mostly black (two have a faint marginal blue reflection on the elytra, possibly referable to var. *barbareae*).

MORRIS, M. G.—Some European and Macaronesian species of *Auletobius* (Attelabidae—Auletobiini). *Auletobius convexifrons* (Wollaston), from various localities on Tenerife and la Gomera, 10–20.xii.1995, by general beating, endemic to the Canaries; *Auletobius cylindricollis* (Wollaston), from various localities on Tenerife, 9–12.xii.1995, on *Rubus*, endemic to the Canaries; *Auletobius maculipennis* (du Val), Pto. di Teulada, Sardinia, 3.v.1996, beaten from *Tamarix*, rather scarce in southern Europe; *Auletobius maderensis* (Wollaston), from various localities in Madeira, 22–26.xi.1994, mainly on *Rubus*, endemic to Madeira; *Auletobius politus* (Serville), near Assemini, Sardinia, 3.v.1996, beaten from *Tamarix*, rather scarce in southern Europe; *Auletobius pubescens* (Kiesenwetter), from various localities in Mallorca, 13–14.iii.1992, and Cadiz Province, Spain, 8–9.iv.1992, on *Cistus*, common in southern Europe; *Auletobius* sp., Pto. S. Nicolas, Gran Canaria, 16.iii.1994, beaten from *Tamarix*, possibly an undescribed species.

OWEN, J. A.—Some beetles encountered in 1994, 1995 and 1996. *Pseudophonus griseus* (Panzer) (Carabidae), Wimbledon, Surrey, 2nd half July 1995, at m.v. light; *Microlestes minutulus* (Goeze) (Carabidae), Grain, West Kent, viii.1996, on the shore under sea-weed on very coarse sand; *Oligella intermedia* Besuchet (Ptiliidae), Epsom, Surrey, viii.1996, in the exhibitor's garden; *Oxytelus migrator* Fauvel (Staphylinidae), Headley Warren, Surrey, 1st half April 1995, in flight interception trap; *Euryporus picipes* (Payk.) (Staphylinidae), R.S.P.B. Abernethy Estate, Easternness, vii.1994, in pitfall trap in pine forest; *Dacryla pruinosa* (Kr.) (Staphylinidae), Headley Warren, Surrey, early April 1995, in flight interception trap; *Bythinus macropalpus* Aubé (Pselaphidae), Diss, East Norfolk, i.1996, in mole's nest; *Atomaria pseudatra* Reitter (Cryptophagidae), Thomson Common, West Norfolk, x.1995, in sedge tuft; *Anommatus diecki* Reitter (Bothrididae), Epsom, Surrey, vii.1995, in underground pitfall trap in exhibitor's garden; *Stilbus atomarius* (L.) (Phalacridae) Woodbastwick Fen, x.1995, in reed debris; *Raymondionymus marqueti* (Aubé) (Raymondionymidae), Epsom, Surrey, vii.1995, in underground pitfall trap in exhibitor's garden; *Anthonomus humeralis* (Panzer) (Curculionidae), Ashted Common, Surrey, vi.1995, beaten off crab apple.



PARSONS, M. S.—Beetles attracted to u.v. light traps in 1996. *Odontaeus armiger* (Scopoli) (Geotrupidae), Friston Forest, East Sussex, 21.vii.1996; *Oncomera femorata* (F.) (Oedemeridae), Holywell, Eastbourne, East Sussex, 13.viii.1996; *Arhopalus rusticus* (L.) (Cerambycidae), Friston, Forest, East Sussex, 27.vii.1996, and Pagham Harbour, West Sussex, 5.viii.1996.

PORTER, D. A.—Four species of Coleoptera taken in the exhibitor's garden at Hailsham, East Sussex, TQ585103, during 1995. *\*Perigona nigriceps* (Dejean) (Carabidae), 19.vii.1995, one specimen to m.v. light; *Parabathyscia wollastoni* (Janson, E. W.) (Leiodidae), 12.viii.1995, many in underground pitfall trap at base of old hornbeam, (it was also numerous in a similar trap set in a garden at Bridport, Dorset); *\*Anommatus diecki* Reitter (Bothrideridae), 22.viii.1995, two in underground pitfall trap at base of old hornbeam; *Aderus populneus* (Creutzer in Panzer) (Aderidae), 31.vii.1995, several to m.v. light over a period of approximately one week.

WHITTON, P.—Some Carabidae taken between 1994–96. *Elaphrus uliginosus* F., Berrow, North Somerset, ST291525, 20.iv.1995, on soft soil at the edge of a reed-bed; *Bembidion quadripustulatum* (Serville), Holme, Norfolk, TF707443, 26.vii.1996, running on muddy pond margin; *Bembidion quinquestriatum* (Gyll.), West Bay, Dorset, SY470899, 30.viii.1994, under rock on beach at base of cliffs; *Amara anthobia* Villa, R.H.S. gardens, Wisley, Surrey, TQ058581, 11.v.1996, amongst weeds on a sandy footpath; *Amara equestris* (Duftschmid), Thetford Heath N.N.R., West Suffolk, 30.vii.1996, in pit-fall trap, and East Ebb near Eype, Dorset, SY431913, 1.ix.1994, on sandy soil at base of undercliff; *Harpalus smaragdinus* (Duftschmid), R.A.F. Barnham, West Suffolk, TL8680, 22.vi.1996, under leaves in a lichen-covered sandy area; *Licinus depressus* (Paykull), Maidscross Hill, Lakenheath, West Suffolk, TL7282, 30.vii.1996, amongst low plants on sandy soil; *Stenolophus teutonus* (Schränk), Barton-on-Sea, S. Hants, SZ227931, 15.iv.1995, at plant roots on damp undercliff; *Odocoileus melanura* (L.), Berrow, N. Som. ST291526, 20.iv.1995, on reeds in a reed-bed; *Masoreus wetterhalli* (Gyll.), Holme, Norfolk, TF715452, 27.vii.1994, in pit-fall trap in sand dunes.

## HEMIPTERA

ALEXANDER, K. N. A.—Two uncommon species found during the National Trust's Biological Survey. *Eurydema oleracea* (L.) (Pentatomidae), Polesden Lacey Estate, Surrey, 12.ix.1996, from chalk grassland and dry heathland habitats; *Myrmedobia distinguenda* Reuter (Microphysidae), Long Mynd, Salop, vi.1996, frequent beneath cushions of western gorse (*Ulex gallii*).

HALSTEAD, A. J.—A live nymph of the fly bug *Reduvius personatus* (L.) (Reduviidae), found in the kitchen of a house in Brentford, Middx on 6.ix.1996, being reared on larvae and pupae of the beetle *Ptinus fur* L.

HAWKINS, R. D.—Insects from northern France, 1996. Calais/Boulogne area: *Eurygaster austriaca* (Schränk) (Scutelleridae), sandy hill, Ambleteuse, 3.ix.1996; *Cydnius aterrimus* (Forster) and *Geotomus punctulatus* (Costa) (Cydnidae) from sand dunes south of Boulogne, 11.ix.1996. Joint meeting with the Evreux entomological society: *Graphosoma italicum* Müller (Pentatomidae), Rochers de St. Adrien, near Rouen, 1.vi.1996, several on cow parsley (*Anthriscus sylvestris*); *Lygaeus equestris* (L.) (Lygaeidae), Rochers de St. Adrien, 1.vi.1996.

*Dicranocephalus medius* (Mulsant & Rey) (Stenocephalidae), Kenley Common, Surrey, 6.vi.96; mating pair climbed into rucksack left on downland recovered from

scrub, with much wood spurge (*Euphorbia amygdaloides*), and were discovered later in a plastic bag full of collecting tubes. *Metopoplax ditomoides* (Costa) (Lygaeidae), Kenley Common, 30.vii.96, on leaf of foxglove *Digitalis purpurea* by horse ride through strip of woodland; *Neottiglossa pusilla* (Gmelin) (Pentatomidae), Kenley Common, 6.vi.96, swept from acid grassland.

HODGE, P. J.—*Stictopleurus abutilon* (Rossi) (Rhopalidae), Shortheath Common, N. Hants., SU7736, 15.viii.1996, several swept off mixed herbage growing in sandy area; *Emblethis denticollis* (Horváth) (Lygaeidae), near the Warren, Oakhanger, N. Hants., SU7735, 18.viii.1996, abundant in sandy field at roots of stork's-bill (*Erodium cicutarium*). *Nysius senecionis* (Schilling) (Lygaeidae): Hyde Common near Fordingbridge, S. Hants., SU1712, 8.vii.1996, swept in numbers off ragwort; near The Warren, Oakhanger, N. Hants., SU7735, several swept in a sandy field; and near Halling, W. Kent, TQ7063, 30.viii.1996, one male on sandy ground near ragwort (*Senecio jacobaea*); these are new vice-county records. *Idiocerus ustulatus* (Mulsant & Rey) (Cicadellidae), near Halling, W. Kent, TQ7063, 30.viii.1996, several swept off aspen; *Ulopa trivialis* Germar (Cicadellidae), A27 road verge near the Newmarket Inn, Falmer, E. Sussex, TQ3709, 27.viii.1996, a male and female in vacuum sample; *Oliarus leporinus* (L.) (Cixiidae), Matley, New Forest, S. Hants., SU3307, 3.viii.1996, one swept; *Oliarus panzeri* Löw (Cixiidae), Rocks Farm, Westfield, E. Sussex, TQ8017, 7.viii.1996, one swept from marshy meadow near River Brede.

JONES, R. A.—Some notable and interesting bugs from various south London sites taken recently. *Oliarus panzeri* Löw (Cixiidae), Crystal Palace Park, Surrey, many hundreds swept, 24 & 25.vii and 5.viii.1996; also taken at Beckenham Place Park, Kent, 27.vii.1995; and Dulwich Park, Surrey, 8.vii.1996. *Asiraca clavicornis* (F.) (Delphacidae), Hither Green N.R., Kent, several swept 6.vi.1996; also taken at Chinbrook Orchard, Grove Park, Bromley, Kent, 18.vi.1996; Gargoyle Wharf, Wandsworth, Surrey, 10.vi.1996; and Blackheath Hill, Kent, 3.x.1995. *Eupelix cuspidata* (F.) (Cicadellidae), Hither Green N.R., Kent, 7.vi.1996, by sweeping. *Placotettix taeniatifrons* (Kirschbaum) (Cicadellidae), Dulwich Park, Surrey, 17.x.1996; the colony discovered in 1993 (Jones, R.A. *Br. J. Ent. Nat. Hist.* 6: 139–140) is as strong as ever in the large rhododendron garden. *Eurydema oleracea* (L.) (Pentatomidae): red form, Gargoyle Wharf, Wandsworth, Surrey, 10.vi.1996; white/yellow form, Chinbrook Orchard, Grove Park, Bromley, Kent, 10.vii.1996. *Neottiglossa pusilla* (Gmelin) (Pentatomidae), Hither Green NR, Kent, very many swept 7 & 27.vi.1996 and 22.viii.1996. *Stephanitis rhododendri* Horváth (Tingidae), Dulwich Park, Surrey, 17.x.1996; the colony discovered in 1993 (Jones, R.A. *Br. J. Ent. Nat. Hist.* 6: 139–140) continues to thrive. Throughout the year, many nymphs and adults were seen, causing the typical brown-stippled damage to the leaves. *Orsillus depressus* Dallas (Lygaeidae), Brenchley Gardens, Peckham, Surrey, 17.x.1996, several swept from Lawson's cypress; also found at Dulwich Park, Surrey, 17.x.1996. At both of these localities, *O. depressus* was in the company of the shield bug *Elasmotethus tristriatus* (F.).

KIRBY, P.—*Spathocera dahlmanni* (Schilling) (Coreidae), Sandy Heath, Beds., TL204492, 15.ix.1996, abundant in a partly vegetated sand quarry; *Liorhyssus hyalinus* (F.) (Rhopalidae), Sandy Heath, Beds., TL204492, 15.ix.1996, nymphs and adults common on stork's-bill (*Erodium cicutarium*) in a disused sand quarry; *Acompus rufipes* (Wolff) (Lygaeidae), Sawbridgeworth Marsh, Herts., TL491158, 27.iii.1996, beaten from stack of cut sedge; *Drymus latus* Douglas & Scott (Lygaeidae), Higham Marshes, Kent, TQ710750, 21.ix.1995, taken by pond net in a ditch close to the sea bank; *Drymus pumilio* Puton (Lygaeidae), Sawbridgeworth Marsh, Herts., TL491158, 27.iii.1996, beaten from stack of cut sedge. *Emblethis*

*denticollis* Horváth (Lygaeidae): Bedford, TL052488, 13.vi.1996, amongst dry grass on sandy ground beside disused railway line; Willersmill Wildlife Park, Cambs., TL394483, 2.ix.1996, amongst ruderal vegetation on calcareous soil; Sandy Heath, Beds., TL204492, 15.ix.1996, amongst sparse ruderal vegetation in sand quarry. *Eremocoris podagricus* (F.) (Lygaeidae), Southorpe Roughs, Northants., TF073032, 1.vi.1996, amongst hawthorn litter at the edge of limestone grassland. *Ischnodemus quadratus* Fieber (Lygaeidae): Folkestone Warren, E. Kent, TR2538, 6.vii.1993; Shakespeare Cliff, E. Kent, TR2939, 28.v.1993; common amongst tor grass (*Brachypodium pinnatum*) on upper cliff slopes. *Lasiosomus enervis* (Herrich-Schäffer) (Lygaeidae), Castle Hill, Folkestone, E. Kent, TR213379, 5.vii.1993, swept from tall calcareous grassland; *Megalonotus praetextatus* (H.-S.) (Lygaeidae), Sandy Heath, Beds., TL204492, 15.ix.1996, amongst moss in recently developed sparse grassland in a sand quarry; *Megalonotus sabulicola* (Thomson) (Lygaeidae), Netherton, Peterborough, Northants., TL171991, 17.viii.1996, in a mercury vapour trap in an urban garden. *Metopoplax ditomoides* (Costa) (Lygaeidae); Bletchingley, Surrey, TQ335520, 11.viii.1995, abundant beneath mayweeds on the embankment of the M25 and on nearby disturbed ground; Sandy Heath, Beds., TL204492, 15.ix.1996, amongst sparse ruderal vegetation in a sand quarry. *Nysius senecionis* (Schilling) (Lygaeidae), Sandy Heath, Beds., TL204492, 15.ix.1996, amongst sparse ruderal vegetation in a sand quarry; *Peritrechus distinguendus* (Flor) (Lygaeidae), Dungeness, E. Kent, TR075167, 26-30.v.1993, amongst dead leaves beneath prostrate broom on concrete; *Pionosomus varius* (Wolff) (Lygaeidae), Three-cliff Bay, Gower, Glam., SS5388, 15.vi.1993, on partly-vegetated but stable sand in dunes; *Raglius alboacuminatus* (Goeze) (Lygaeidae), Higham, W. Kent, TQ715727, 9.ix.1995, abundant amongst black horehound (*Ballota nigra*) on low roadside bank; *Rhyarochromus pini* (L.) (Lygaeidae), Horner Wood, Exmoor, Som., SS895440, 31.vii.1994, in a small stone quarry in woodland; *Trapezonotus ulrichi* (Fieber) (Lygaeidae), Pendine, Carm., SN233078, 15.vi.1993, on flower of ox-eye daisy (*Leucanthemum vulgare*) on the upper slopes of a coastal cliff, during a period of prolonged rain; *Acalypta brunnea* (Germar) (Tingidae), Horner Wood, Exmoor, Som., SS895440, 31.vii.1994, brushed from moss on an oak trunk; *Adelphocoris seticornis* (F.) (Miridae), Pinged, Pembrey, Carm., SN423036, 19.ix.1994, swept from lightly-grazed rushy pasture with abundant large bird's-foot trefoil (*Lotus dispar*); *Adelphocoris ticinensis* (Meyer-Dür) (Miridae), East Ruston Common, E. Norf., TG340280, 10.ix.1994, common on purple loosestrife (*Lythrum salicaria*); *Capsus wagneri* Remane (Miridae), The Boardwalks Local Nature Reserve, Peterborough, Northants., TL177982, 16.vii.1995, swept from winter-flooded wetland vegetation bordering the River Nene close to the centre of Peterborough; *Lygus pratensis* (L.) (Miridae), Oak Banks, near Hythe, E. Kent, TR167367, 7.ix.1993; swept from lush vegetation at a sheltered woodland edge; *Pachycoleus waltli* Fieber (Dipsocoridae), Sutton Heath & Bog, Northants., TF089000, 28.iv.1996; *Aepophilus bonnaii* Signoret (Aepophilidae), Lee Bay, N. Devon, SS478466, 27.ix.1996, in intertidal rock crevices; *Hebrus pusillus* (Fallén) (Hebridae), Shorné Marshes, W. Kent, TQ685743, 9.ix.1995; amongst vegetation at a ditch margin.

PORTER, D.A.—*Stictopleurus abutilon* (Rossi) (Rhopalidae), Shortheath Common, N. Hants., SU771363, 15.viii.1996; Oakhanger, N. Hants., SU769360, 15.viii.1996; believed to be new to N. Hants. Breeding colonies are obviously well established in this area. A nymph taken on 13.x.1996 had produced an adult by 24.x.1996. *Corizus hyoscyami* (L.) (Rhopalidae), Brede High Wood, E. Sussex, TQ795203, 26.ix.1992, a single specimen swept in a rough grassland clearing, an interesting inland locality for this usually coastal species; *Ortholomus punctipennis*



(Herrich-Schäffer) (Lygaeidae). Camber, E. Sussex, TQ953185, 20.vi.1990, in sand dunes, new to Sussex: *Metopoplax ditomoides* (Costa) (Lygaeidae), North Woolmer, N. Hants., SU8033, 13.x.1996, a single example amongst a large number of *Nysius ericae* (Schilling) on sparsely vegetated ground with pineapple weed (*Matricaria matricarioides*) and corn spurrey (*Spergula arvensis*); *Oliarus panzeri* Löw (Cixiidae), Bulverhythe, Hastings, E. Sussex, TQ767093, 6.viii.1996.

## HYMENOPTERA

ARCHER, M.E.—Some aculeate solitary bees and wasps from the 1995 season. Chrysididae: *Hedychridium cupreum* (Dahlbom), 28.viii, Devil's Spittleful, Wores. Spagyidae: *Sapyga clavicornis* (L.), female, 22.vi, Caydale, N. Yorks. Pompilidae: *Arachnospila minutula* (Dahlbom), female, 2.viii, Messingham Sand Quarry, Lincs. Sphecidae: *Oxybelus argentatus* Curtis, male, 3.viii, North Walney NNR, Cumbria, and female, 29.vi at Hartlebury Common, Wores; *Argogorytes fargei* (Shuck.), female, 20.vi, Fulford Ings, York, and female, 4.vi at Beningbrough, N. Yorks. Apidae–Andreninae: *Andrena tibialis* (Kirby), female, 13.iv, Messingham Sand Quarry, Lincs; *A. bimaculata* (Kirby), female, 28.vi, Devil's Spittleful, Wores; *A. humilis* Imhoff, male, 5.v, Devil's Spittleful, Wores, and female, 29.vi at Hartlebury Common, Wores; *A. nigriceps* (Kirby), female, 28.vi, Devil's Spittleful, Wores. Apidae–Halictinae: *Lasioglossum brevicorne* (Schenck), female, 29.vi, Hartlebury Common, Wores; *Sphecodes reticulatus* Thomson, male, 12.viii, Roydon Common, Norf.; *S. crassus* Thomson, female, 23.vi, Gibraltar Point, Lincs; *S. ferruginatus* von Hagens, female, 29.vi, Hartlebury Common, Wores. Apidae–Anthophorinae: *Nomada pleurosticta* H-S., female, 29.vi, Hartlebury Common, Wores; *N. lathburiana* (Kirby), female, 5.v, Devil's Spittleful, Wores. Apidae–Melitinae: *Dasypoda altercator* (Harris), male and female, 10.viii, Hartlebury Common, Wores. Dr Archer also showed a selection of aculeate bees collected from mainland Europe, with preliminary identifications requiring checking against named specimens.

FOSTER, A. P. & ALEXANDER, K. N. A.—A selection of the more interesting aculeate bees found in 1996 during the National Trust's Biological Survey. Apidae–Andreninae: *Andrena carbonaria* (F.), 15.v, Boat Cove, Perranuthnoc, W. Corn. Apidae–Anthophorinae: *Nomada fucata* Panz., 15.v, Chynhalls Point, W. Corn.; *N. lathburiana* (Kirby), 5.vi, Clent Hills, Wores; *N. pleurosticta* H-S., 12.vi, Saddlescombe Farm, W. Sussex.

HALSTEAD, A. J.—Some scarce or local sawflies taken during 1996. Cimbicidae: female *Trichiosoma vitellinae* (L.), col. I, Perry, 14.vii, Skipworth Common, near Skipworth, Yorks. Pamphiliidae: female *Pamphilus varius* (Lep.), on aspen leaf, 15.vi, Whitmoor Common, near Guildford, Surrey. Tenthredinidae: female *Caliroa tremulae* Chevin, swept from aspen, 16.vi, California Country Park, Long Moor, Berks; female *Fenella nigrita* Westw., col. B, Hardwick, 17.vii, Duncombe Park, Yorks; female *Rhogogaster dryas* (Benson), swept from aspen, 23.vi, Whitmoor Common, Surrey; *Tenthredo maculata* Geoff., swept from grass at woodland edge, 2.vi, Whitmoor Common, Surrey; male *T. vespa* Retz., col. C, Spilling, 18.vii, Haugh Wood, near Pickering, Yorks; female *Nematus leionotus* (Benson), swept from sallow, 28.iv, Bentley Meadow BBC Reserve, Alice Holt Forest, Hants. Also shown were four species with larch-feeding larvae which are occasionally of economic importance in forestry plantations. These were male *Cephalcia lariciphila* (Wachtl), col. K, Merrifield, 17.vii, Seugdale Beck, near Heathwaite, Yorks; female *Pristiphora wesmaeli* (Tischbein), 14.vii, Wheldrake Wood, near Wheldrake, Yorks;

female *P. laricis* (Hartig), 18.vii, Raincliffe Wood, near West Airton, Yorks and female *P. erichsonii* (Hartig), col. A. Stubbs, 18.vii, Hayburn Wyke, Yorks.

HALSTEAD, A. J.—A display of thirteen out of the seventeen British species of sawflies and other Symphyta with larvae that feed on the foliage or stems of deciduous oaks. These included the dead wood feeder *Xiphydria longicollis* (Geoff), which began to colonize England during the 1980s, and the stem-boring *Janus femoratus* (Curtis). Larvae of *Profenusa pygmaea* (Klug) develop as leaf-miners while those of *Caliroa annulipes* (Klug) and *C. varipes* (Klug) graze away the leaf surface. The larvae of the other species shown, *Arge rustica* (L.), *Perichista albida* (Klug), *P. lineolata* (Klug), *P. pubescens* (Zaddach), *Allantus togatus* Panz., *Apethymus serotinus* (O.F. Müller), *A. filiformis* (Klug) and *Mesoneura opaca* (Klug) eat the entire leaf.

HAWKINS, R.D.—Some solitary bees collected in Surrey and Kent during 1996. Apidae—Anthophorinae: *Nomada ficata* Panz., 30.iv and 18.vii, females flying over loose bare soil of horse rides, Farthing Downs, Surrey; *N. fulvicornis* F., 17.vi, female at flowers of *Myosotis scorpioides* by a small pond, Spring Park, W. Kent; *N. flavopicta* (Kirby), 22.viii, female flying low over chalk downland, Riddlesdown, Surrey. Apidae—Melittinae: *Melitta tricincta* (Kirby), 22.viii, male and female taken at flowers of *Odontites verna* at Riddlesdown, Surrey.

HODGE, P. J.—Four species of aculeate Hymenoptera taken in 1996. Chrysididae: *Omalus violaceus* (Scop.), swept off low vegetation in a forest glade, 7.vii, Naphill Common, Bucks. Apidae—Andreninae: *Andrena gravida* Imhoff, a female on a tall umbel growing in disturbed shingle, 13.vi, at Rye Harbour, E. Sussex (first British record since 1961); *A. coitana* (Kirby), a female on a hogweed umbel, *Heracleum sphondylium*, 7.viii, at Rocks Farm, Westfield, E. Sussex. Apidae—Anthophorinae: *Nomada obtusifrons* Nylander, a male of this cleptoparasite of the previous species and found 2.viii on the same site, being swept from tall marshland vegetation in a meadow beside the River Brede.

JONES, R. A.—Some notable and interesting Hymenoptera taken recently from various south London sites. *Hylaesus cornutus* Curt. (Apidae: Colletinae), Crystal Palace Park, Surrey, 24.vii.1996, on the wing, a male. Although originally given RBD3 status, it has recently been found in several Kent sites and is now listed as notable *A. ammophila sabulosa* (L.) (Sphecidae), Gargoyle Wharf, Wandsworth, Surrey, 10.vi.1996. Although a common and widespread species of sandy places, this site was unusual in that it was a derelict rubble-covered plot on the River Thames near central London. *Dolichovespula media* (Retz.) (Vespidae), Beckenham Place Park, Bromley, Kent, 27.vi.1995, a queen found hibernating under a log. This wasp is now a very common breeding species in the south London area. *Bethylus hoops* Thomson (Bethyridae), Nunhead, 28.vi.1992, running around on a newspaper being read in the garden, the sixth British record of a species only recently discovered here. Another specimen was found running around inside on the glass of french windows of the house on 13.vi.1995.

PORTER, D. A.—Some local Hymenoptera taken in Sussex and Dorset in recent years. Chrysididae: *Omalus violaceus* (Scop.), in a garden, 17.vi.1996, Hailsham, E. Sussex. Sapygidae: *Sapyga clavicornis* (L.), on a dead rowan tree in garden, 20.vi.1995 and 18.vii.1996, Hailsham, E. Sussex. Apidae—Andreninae: *Andrena cineraria* (L.), on the foliage of alexanders, *Smyrniium olusatrum*, 25.iv.1996, Crumbles, Eastbourne, E. Sussex; *A. lapponica* Zett., from a strong nesting colony in bare sandy/gravelly patches among heather, 20.iv.1992, Portesham, Dorset—apparently new to the Dorset list. Apidae—Anthophorinae: *Eucera longicornis* (L.), visiting gladiolus flower in garden, 11.vi.1996, Hailsham, E. Sussex. Ichneumonidae:

*Netelia* sp., rapidly running over a barkless fallen apple bough and appearing to be exploring borings of bark beetles, *Scolytus mali* and *S. rugulosus*, 22.vii and 7.viii. 1996, Hailsham, E. Sussex.

ROBERTS, S. P. M.—A selection of the target species for the second BWARS Provisional Atlas due to be published in 1997. Chrysididae: *Chrysis viridula* L., female, 27.v.1989, Chideock, Dorset, also female, 15.vii.1996, Stephen's Castle, Dorset. Tiphidae: *Methoca ichneumonides* Lat., female, 4.vii.1991, Crock Hill, New Forest, Hants. Mutillidae: *Myrmosa atra* Panz., female, 18.vii.1992, Studland Heath, Dorset, and male, 13.vii.1994, Sandford, Dorset; *Smicromyrme rufipes* (F.), female, 19.vii.1996, Upton Heath, and 18.vii.1992, Studland Heath, Dorset, also males 9.vii.1996, Stephen's Castle, 18.vi.1992, Town Common, 22.vii.1996, Winfrith Heath, all Dorset. Pompilidae: *Episyron rufipes* (L.), male, 18.vii.1992, Studland Heath, Dorset, female, 10.vii.1994, Morden Bog, Dorset; *Ceropales maculata* (F.), male and female, 22.vii.1995, Dibden Marshes, Hants. Sphecidae: *Tachysphex nitidus* (Spin.), male, 6.vi.1996, Stephen's Castle, Dorset and female, 24.vi.1993, Chamberlayne's Heath, Dorset; *Ectemnius dives* (Lep. & Brullé), female, 6.viii.1994, Holton Heath, Dorset; *E. continuus* (F.), male, 22.vii, and female, 29.vii.1995, Dibden Marshes, Hants; *E. rubicola* (Duf. & Perris), female, 22.vii.1995, Dibden Marshes, Hants; *Mellinus arvensis* (L.), male, 6.viii.1987, Holt Heath, Dorset, female, 28.vii.1992, Higher Hyde Heath, Dorset; *M. crabroneus* (Thunb.), female (*in coll.* F.H. Haines), 19.vii.1910, Wood Street, Dorset. Apidae—Melittinae: *Melitta dimidiata* Morawitz, male and female, 4.vii.1993, Great Cheverell Hill, Wilts; *M. leporina* (Panz.), male, 29.vii.1995, Dibden Marshes, Hants, female, 19.viii.1991, White Barrow, Tilshead, Wilts; *M. tricolor* Kirby, male, 25.vii.1995, Dibden Marshes, Hants, female, 5.viii.1993, Clearbury Ring, Wilts. Apidae—Megachilinae: *Stelis ornatula* (Klug), female, 29.vii.1994, Holton Heath, Dorset; *Osmia aurulenta* (Panz.) male and female collected as pre-pupae 10.iii.1991 and reared, Easton Quarries, Portland, Dorset; *O. bicolor* (Schr.), male and female, 29.iii.1990, Garston Wood, Dorset, and female, 3.v.1993, Middleton Down, Wilts. Also shown were draft maps produced with the DMAP package for inclusion in the BRC/BWARS provisional atlas for publication in 1997.

UFFEN, R. W. J.—Some aculeates new to the list for Hertfordshire that is being compiled by the exhibitor. Tiphidae: *Tiphia minuta* V.d. Lind, male, 6.vii.1996, Mardley Heath, Welwyn, male, 18.vi.1996, Danesbury, Welwyn, female, 12.vi.1996, Commonswood, Welwyn Garden City. Chrysididae: *Hedychridium roseum* (Rossius), male and female, 5.viii.1996, Tyttenhanger Sandpits, Colney Heath; *H. ardens* (Lat.), males, 4.viii.1996, Patmore Heath, Furneaux Pelham. Pompilidae: *Dipogon variegatus* (L.), female hunting on ground and upturned tree root ball, 7.viii.1996, Commonswood, Welwyn Garden City. Sphecidae: *Astata pinguis* (Dahlbom), 26.vii.1996, in a field at Tyttenhanger; *Stigmus pendulus* Panz., female storing immature alate aphids in beetle tunnels in dead standing oak, 24.ix.1996, Tyttenhanger; also male *S. solskyi* Morawitz, 18.vi.1996 from the same site and a female, 19.vii.1994 from Tyttenhanger Pits. Apidae—Megachilinae: *Megachile violicolor* F. Smith, female, 15.viii.1996, on ragwort, Bayfordbury, Hertford. Also shown were three males and a female *Sphecodes niger* Sichel (Apidae: Halictinae). These were collected from about 40 skimming over the soil on a roadside bank at Sacombe, Herts, at about 2 pm, 16.ix.1996 (temperature 24°C). Potential hosts seen were mostly *LasioGLOSSUM morio* (F.) but *L. leucopum* (Kirby) and *L. villosulum* (Kirby) were also present. The chrysid wasp, *Hedychridium coriaceum* (Dahlbom), 7.vii.1996, Dinton Pastures Country Park, Winnersh, Berks, was also shown.